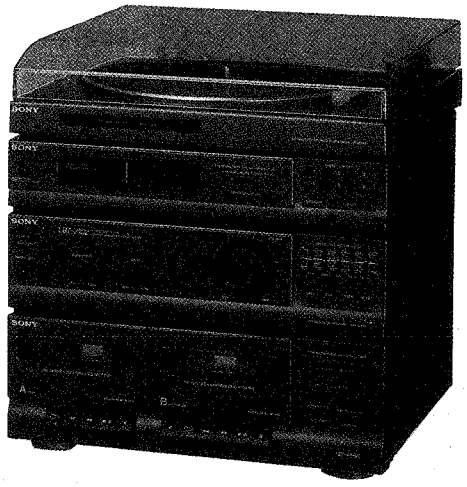
HMK-V82/V102
HST-V102/V202

SERVICE MANUAL

US Model
HST-V102

AEP Model
HMK-V82/V102
HST-V202

UK Model
HMK-V102
HST-V202



- **HMK-V82/V102 are the STEREO DECK RECEIVER in LBT-V82/V102.**
- **HST-V102/V202 are the STEREO DECK RECEIVER in LBT-V102/V202.**

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	XO-D101S	Page
Tape Transport Mechanism Type	TCM-YMW47-97	25
	TCM-180VM-N1	28

- After confirming the form of mechanism, look at a part in the Exploded views.

SPECIFICATIONS

Tuner

System: FM stereo; FM/AM superheterodyne tuner

FM tuner section
- Tuning range: 87.5 to 108 MHz
- Antenna: 75 ohms unbalanced; 300 ohms balanced
- Intermediate frequency: 10.7 MHz

MW/LW tuner section (AEP, UK model)
- Tuning range: MW: 522 to 1,611 kHz (Italian model); 531 to 1,602 kHz (other models); LW: 144 to 288 kHz (Italian model); 153 to 279 kHz (other models)

AM Tuner section (US model)
- Tuning range: 530 to 1,710kHz
- Antenna: AM loop antenna; External antenna terminal
- Intermediate frequency: 450 kHz

Cassette deck

Recording system: 4-track 2-channel stereo

Frequency response: DOLBY NR OFF
With Type II cassette (Sony UX-S)
40 Hz to 14 kHz (±3 dB)
With Type I cassette (Sony HF-S)
40 Hz to 13 kHz (±3 dB)

Wow and flutter: ±0.2% (DIN)

Turntable (HMK-V82/V102)
- Platter: 30 cm
- Tonearm type: Dynamically balanced
- Cartridge type: Moving magnet type
- Stylus: Sony ND-155G (0.6 mil diamond)

Amplifier

Continuous RMS power output: 20 W + 20 W (6 ohms, at 1 kHz, 10% THD)

DIN power output: 15 W + 15 W (6 ohms, at 1 kHz)

Music power output: 35 W + 35 W (6 ohms)

Input	Jack type	Sensitivity	Impedance
CD IN	Phono	200mV	47 kohms
PHONO IN	Phono	2mV	47 kohms

(HST-V102/V202)

— continued on next page —

MICROFILM

COMPACT HI-FISTEREO SYSTEM

SONY®

Output	Jack type	Voltage	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 8 to 16 ohms	
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more	

Frequency response CD: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

General

Power requirements
120V AC, 60Hz (US model)
220V AC, 50Hz (AEP model)
240V AC, 50Hz (UK model)

Power consumption
60W (US, AEP model)
110W (UK model)

Weight
Approx. 7kg (HMK-V82/V102)
Approx. 6kg (HST-V102/V202)

Dimensions
Approx. 355×377×325 mm (HMK-V82/V102)
Approx. 355×290×325 mm (HST-V102/V202)
(w/h/d, including projections)

Design and specifications subject to change without notice.

Note
This appliance conforms with EEC Directives 87/308/EEC regarding interference suppression.

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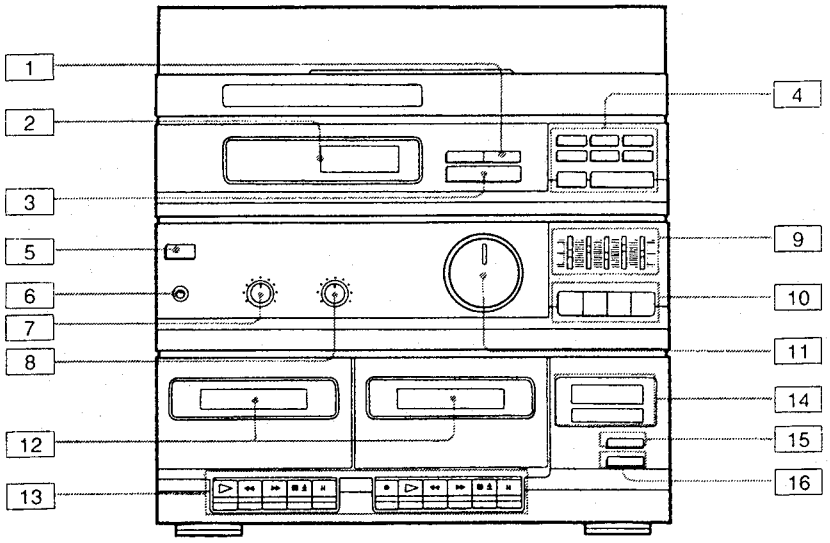
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

1-1. LOCATION OF CONTROLS



Tuner

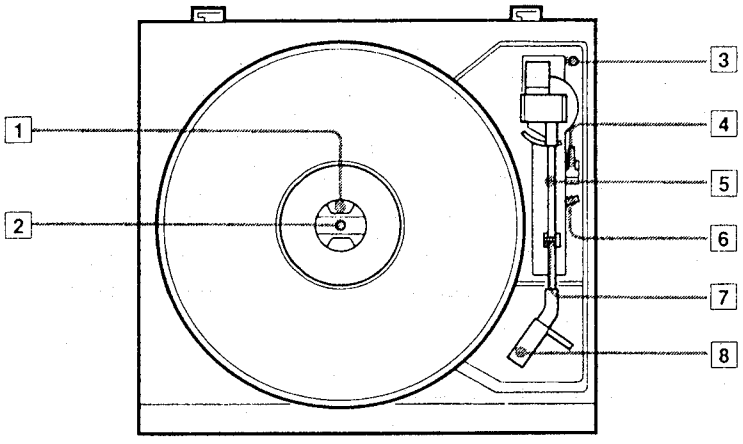
1. TUNING buttons
2. Band/frequency display
3. BAND SELECTOR
4. Buttons for storing station frequencies

Amplifier

5. POWER switch
6. HEADPHONES jack
7. SURROUND control
8. DBFB (dynamic bass feedback) control
9. GRAPHIC EQUALIZER controls
10. Function selectors and indicators
11. VOLUME control

Cassette deck

12. Cassette holders
13. Tape operation buttons
    - ◀◀ Leftward fast winding
    - ▶▶ Rightward fast winding
    - ▶ Forward play
    - ■ ⏏ Stop/eject
    - ❚❚ Pause
    - ● Record
14. OPERATING INDICATOR
15. TAPE SELECTOR
16. DOLBY NR (noise reduction) switch



Turntable (HMK-V82/V102)

1. 45-rpm adaptor
2. Centre spindle
3. Transit screw
4. Cueing lever
5. Tonearm
6. Speed selector
7. Armrest
8. Cartridge

SECTION 2
ADJUSTMENTS

• Refer to page 6 for Adjustment Location.

2-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denaturedalcohol-moistened swab :
   record/playback heads — pinch rollers
   erase heads — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torquement	Meter reading
FWD	CQ-102C	30—70g•cm (0.42—0.97oz•inch)
FWD Back tension	CQ-102C	1.5—5.5g•cm (0.020—0.076oz•inch)
FF. REW	CQ-201B	63g•cm or more (0.87oz•inch)

2-2. ELECTRICAL ADJUSTMENTS

0dB=0.775V (AF)
0dB=0.1μV (RF)

CASSETTE DECK SECTION

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

• Switches and controls should be set as follows unless otherwise specified.
DOLBY NR switch : OFF
TAPE SELECT switch : TYPE I

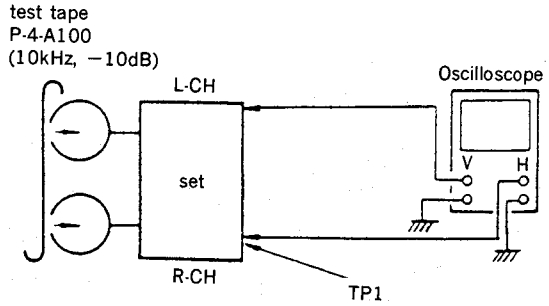
Type	Signal	Used for
P-4-A063	6.3kHz, −10dB	Azimath Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

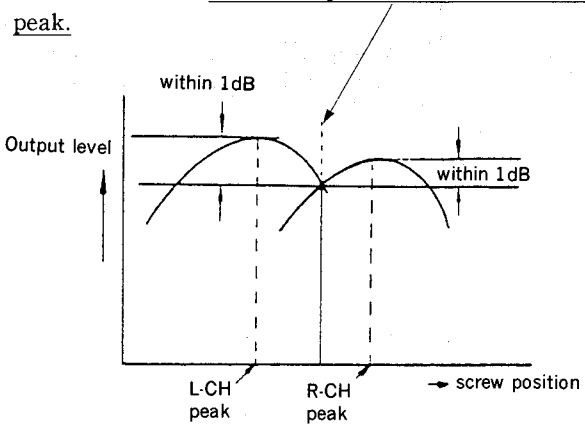
Note : Perform this adjustments for both decks.

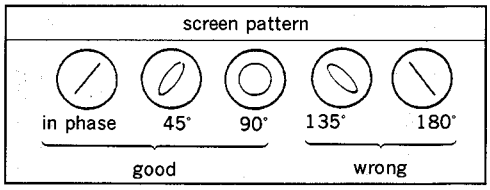
Procedure :

1. Mode : FWD playback



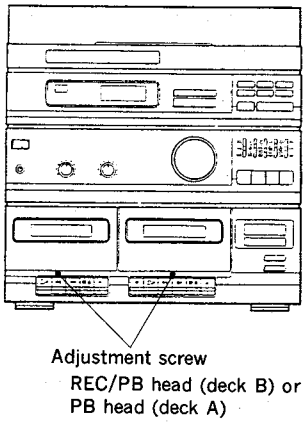
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.

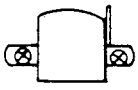




3. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location :

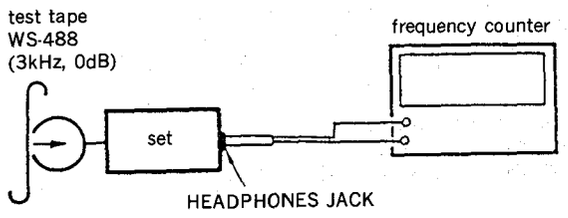




Tape Speed Adjustment

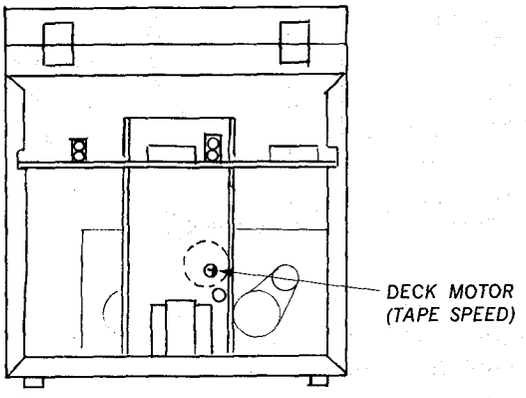
Procedure :

Mode : playback



1. Playback WS-48B (Tape center portion) in FWD mode.
2. Adjustment the deck A, deck B so that at this time the frequency counter reads 3000±30Hz.
   Frequency difference between the beginning and the end of the tape should be within 1.5%.

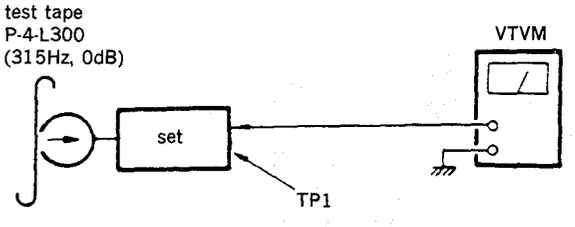
Adjustment Location : DECK MOTOR (BOTTOM SIDE)



Playback Level Adjustment

Procedure :

Mode : FWD playback



DECK-A side RV301 (L-CH), RV351 (R-CH)
DECK-B side RV302 (L-CH), RV352 (R-CH)
so that the limits below are satisfied.

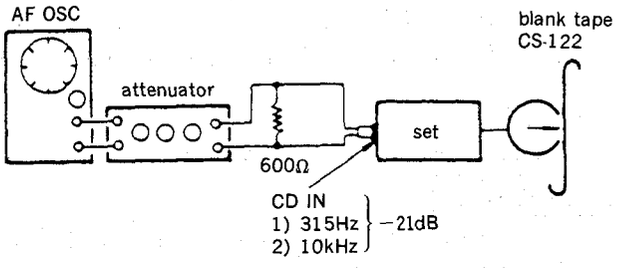
Adjustable limits :

TP1 level : −1.7dB to −3.7dB
level difference between the channels : within 1.0dB
(See page 6 for Adjustment Location)

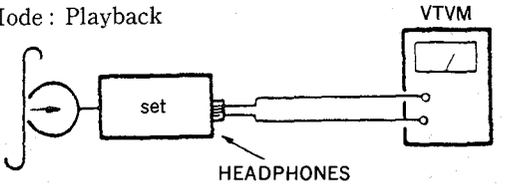
Record BIAS Current Adjustment

Procedure :

1. Mode : record



2. Mode : Playback



(1) Supply a −21dB signal (315Hz) from the CD IN. Adjust the VOLUME control so that a −30dB signal is output to the headphones terminal.
(2) Insert alignment tape CS-122 into deck B and put the set into the REC mode.
(3) Adjust the signal frequency to 10kHz.
(4) Put the set into the PB mode and adjust RV401 (L CH) and RV451 (R CH) in the REC mode so that the level difference between 315Hz and 10kHz is within 0±0.5dB.
(5) Repeatedly put the set into the REC and PB modes two to four times and adjust the bias.

Adjustable limits :

The HEADPHONES level of 10kHz signal relative to that of 315Hz : 0dB±0.5dB
(See page 6 for Adjustment Location)

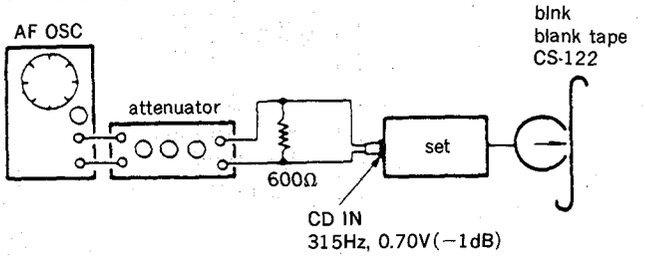
Record Level Adjustment

Setting :

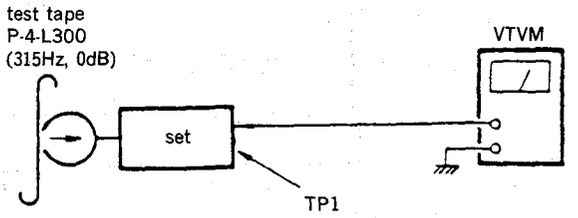
TAPE SELECT : TYPE I

Procedure :

1. Mode : record



2. Mode : playback



• Refer to page 18 for TEST-MODE BY DISPLAY-CONTROL MICROCOMPUTER. (IC201)

(1) Supply a −22.7dB signal (315Hz) from the CD terminal.
(2) Insert alignment tape CS-122 into deck B and record the signal. Then playback the recorded portion of the tape and adjust RV303 (L-CH) and RV353 (R-CH) so that the −25.0dB signal output is obtained at TP1 terminal.

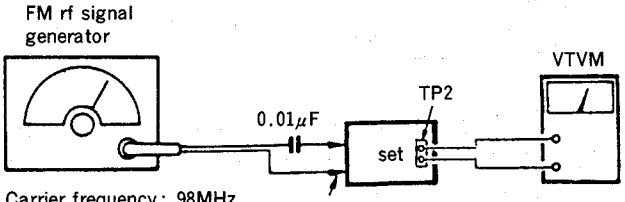
Adjustable limits :

HEADPHONES level : −25.0dB+0.5dB

TUNER SECTION

As FM FRONT-END FE1 is difficult to repair if faulty, replace it with new one.

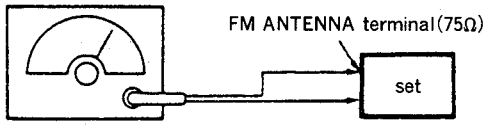
FM NULL Adjustment



Procedure :

1. Tune the set to 98MHz
2. Adjust T51 for 0V reading on the VTVM.

FM Tuned Level Adjustment

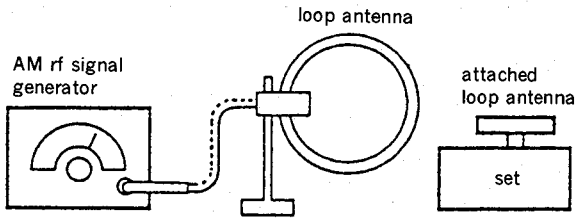


Carrier frequency : 98MHz
Output level : 0.018mV(25dBμ)
Modulation : 1kHz, 75kHz deviation

Procedure :

1. Tune the set to 98MHz.
2. Adjust RV72 to the point where "TUNED" sign on LCD201 just turns light.

• AM SECTION



Carrier frequency : 216kHz (US : 1050kHz)
Modulation : 400Hz, 30% modulation

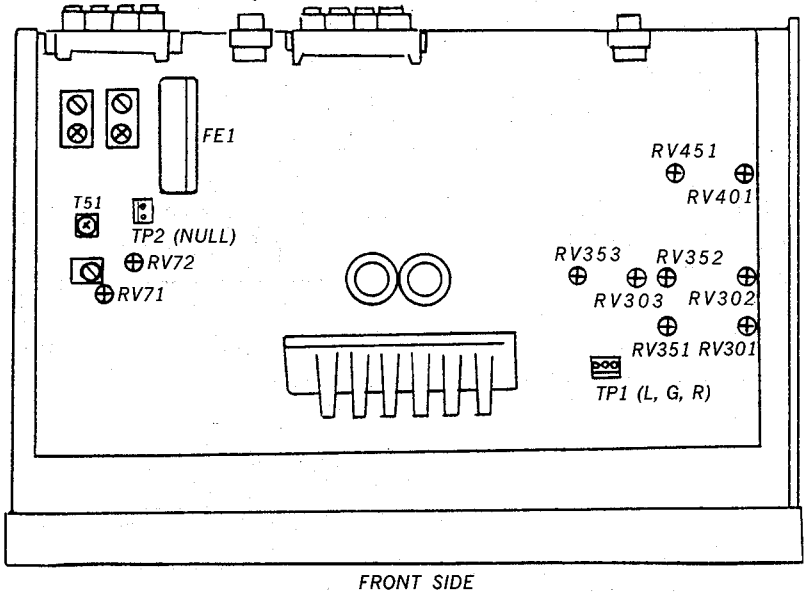
AM Tuned Level Adjustment

• LW BAND (US : MM BAND)

1. Set loop antenna input level to 2.5mV (68dBμ/m) and tune the set to the signal.
2. Tune the set to 216kHz. (US : 1050kHz)
3. Adjust RV71 to the point where "TUNED" sign on LCD201 just turns light.

Adjustment Location :

MAIN BOARD—Component Side—



SECTION 3
DIAGRAMS

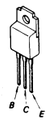
3-1. SEMICONDUCTOR LEAD LAYOUTS

DTA114ES
DTA124ES
DTC114ES
DTC144ES
DTC124ES
2SA1317
2SA1175
2SC2724
2SC2603
2SC3622A

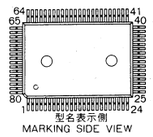
2SK246GR3

2SC3112
2SC1815
2SC945

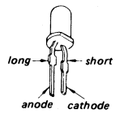
2SD1761
2SB1187



μPD75308GF

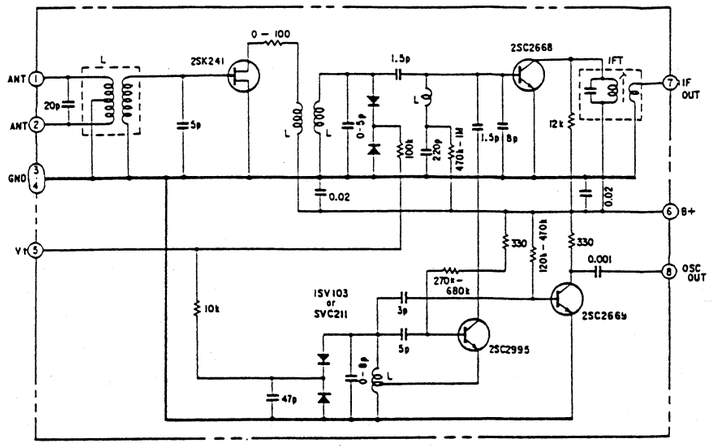


SEL2210S-C
SEL4B14A-D
SEL2410E-D
SEL2810A-C

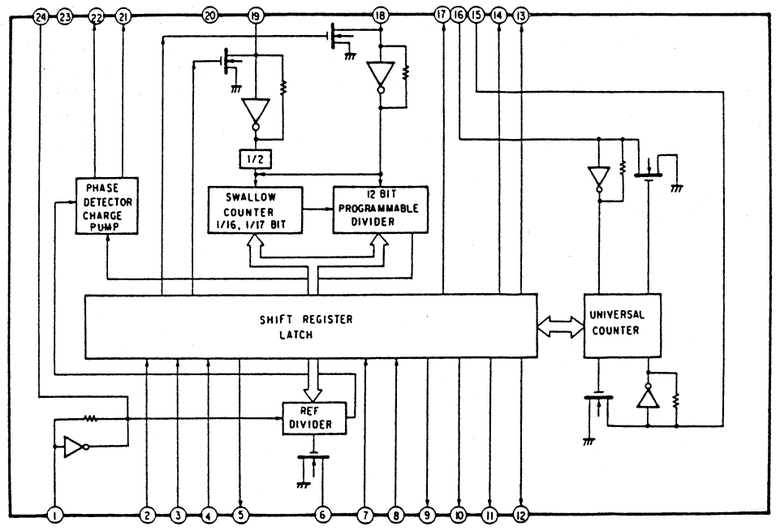


3-2. IC BLOCK DIAGRAMS

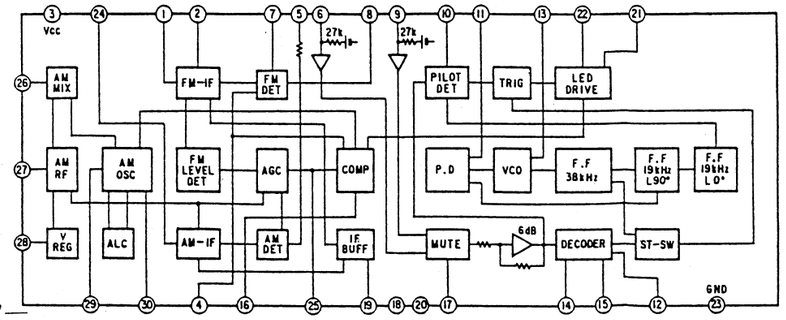
• FM FRONT-END FE1



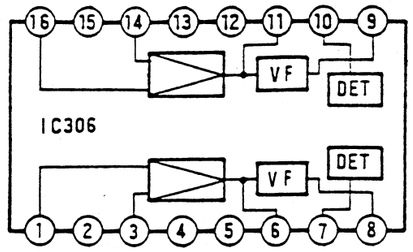
• IC101 LC7218



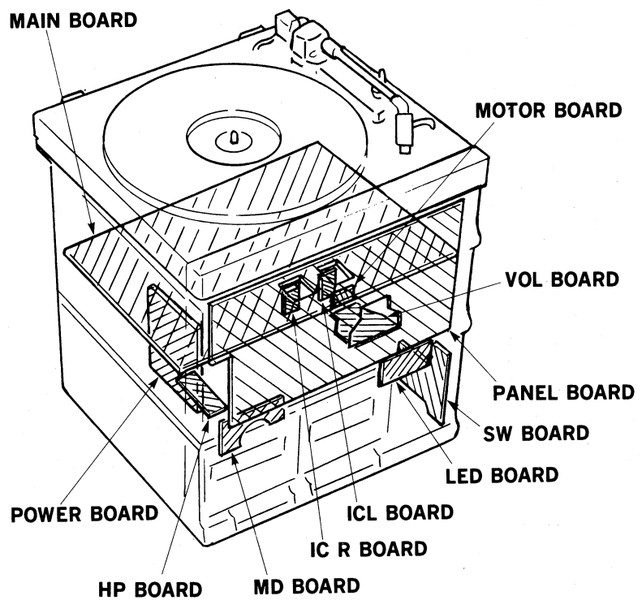
• IC51 LA1851N



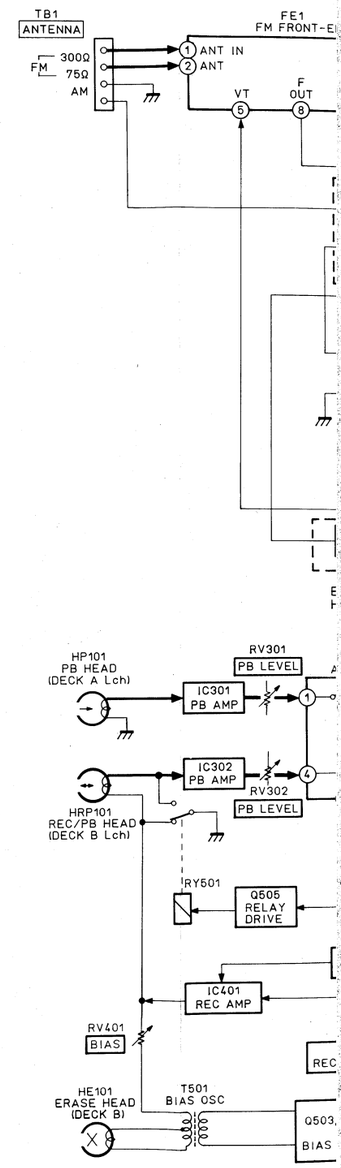
• IC304 CXA1100



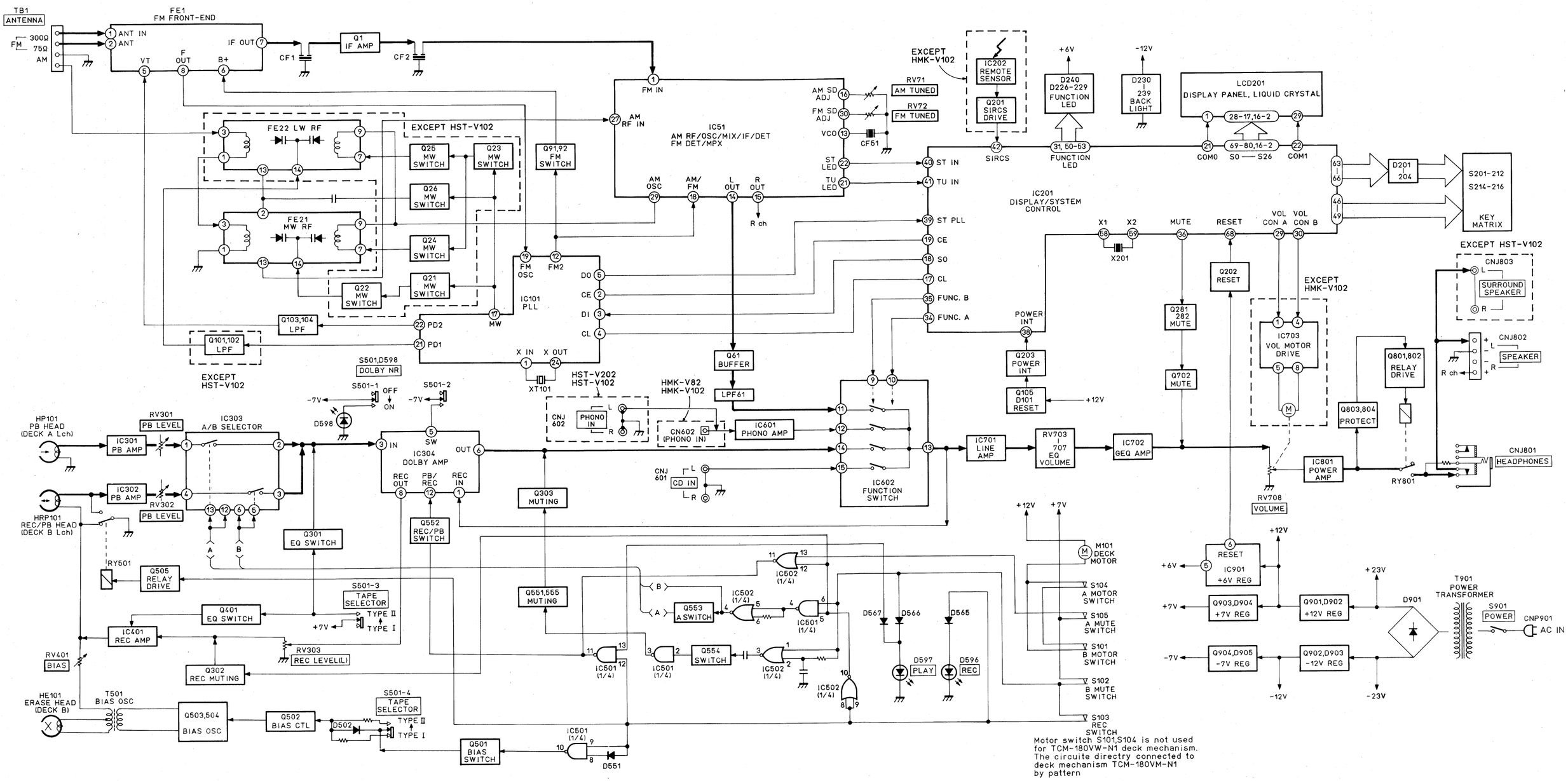
CIRCUIT BOARDS LOCATION



3-3. BLOCK DIAGRAM



3-3. BLOCK DIAGRAM



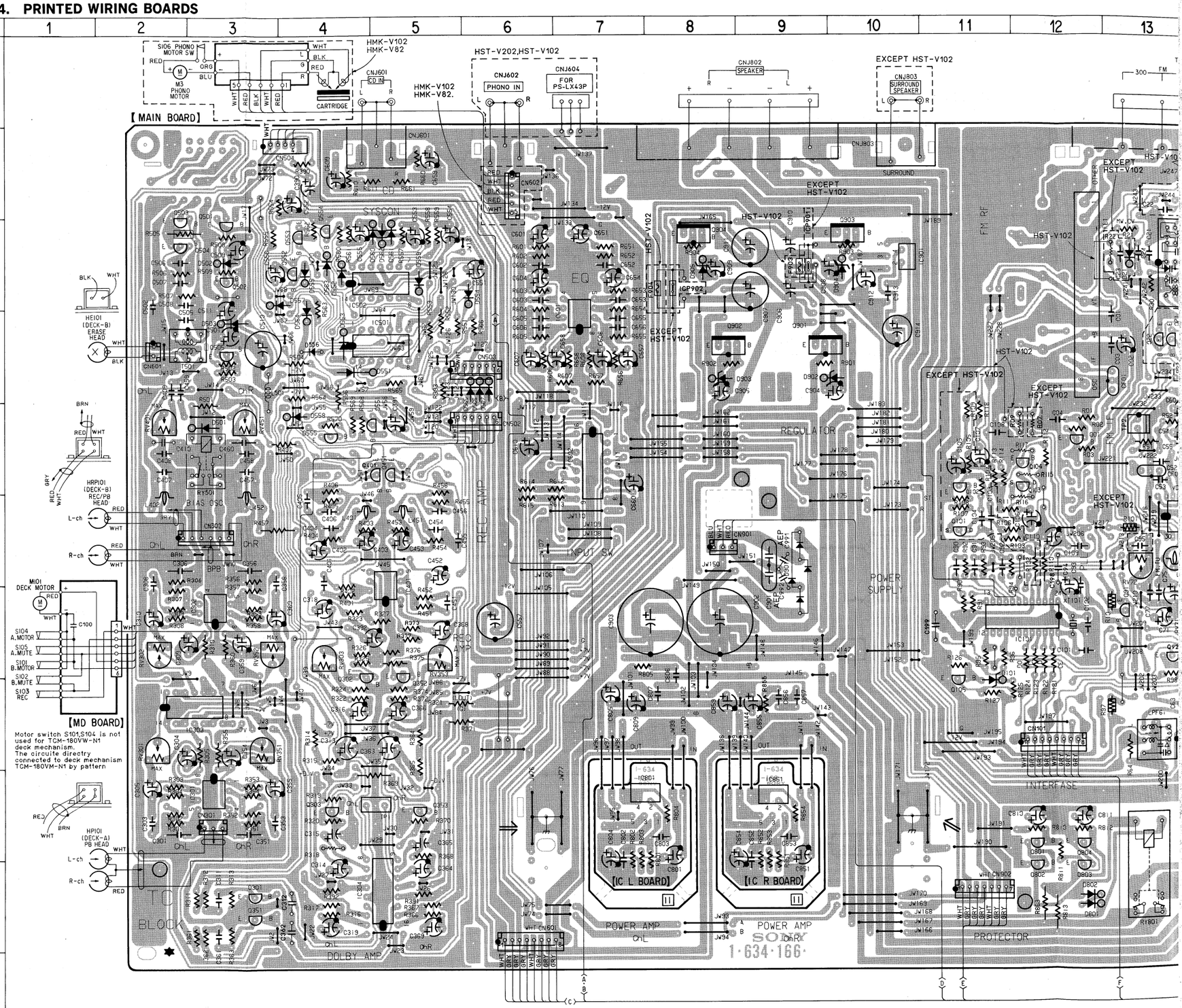
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D21	C-13	IC304	J-5
D101	H-11	IC401	G-5
D201	B-23	IC501	D-5
D202	B-23	IC502	C-4
D203	B-23	IC601	D-7
D204	B-23	IC602	E-7
D206	A-24	IC701	E-24
D208	A-23	IC702	D-24
D211	A-23	IC703	C-22
D221	C-29	IC801	I-8
D222	D-28	IC851	I-9
D223	D-29	IC901	C-10
D226	E-18		
D227	E-19	Q01	E-12
D228	E-19	Q21	D-13
D229	E-17	Q22	D-13
D230	A-24	Q23	D-14
D231	A-25	Q24	D-14
D232	A-25	Q25	D-14
D233	A-25	Q26	C-14
D234	A-26	Q61	G-14
D235	A-24	Q66	H-14
D236	B-25	Q91	G-13
D237	B-25	Q92	G-13
D238	B-25	Q101	F-11
D239	B-26	Q102	E-11
D240	C-21	Q103	E-12
D501	E-3	Q104	E-12
D502	C-3	Q105	H-11
D503	D-3	Q201	B-28
D551	D-4	Q202	B-29
D552	C-4	Q203	D-27
D553	D-4	Q281	D-27
D554	C-6	Q282	D-28
D555	C-4	Q301	J-3
D556	D-4	Q302	H-4
D557	C-4	Q303	I-4
D558	E-4	Q351	J-3
D559	C-5	Q352	H-5
D560	C-5	Q353	I-5
D561	C-5	Q401	E-5
D562	C-5	Q451	E-5
D563	C-4	Q501	C-3
D564	D-4	Q502	C-3
D565	D-6	Q503	B-2
D566	D-6	Q504	C-2
D567	D-6	Q505	D-3
D596	I-20	Q551	E-5
D597	I-20	Q552	C-4
D598	I-19	Q553	C-4
D801	J-12	Q554	C-4
D802	J-12	Q555	E-4
D901	F-9	Q701	E-25
D902	D-10	Q702	C-19
D903	D-8	Q751	E-25
D904	C-10	Q752	C-21
D905	C-8	Q801	I-12
		Q802	J-12
IC051	F-14	Q803	J-12
IC101	G-12	Q804	I-12
IC201	C-27	Q901	D-8
IC202	A-28	Q902	D-8
IC301	I-3	Q903	C-10
IC302	G-3	Q904	C-8
IC303	H-3		

Note:

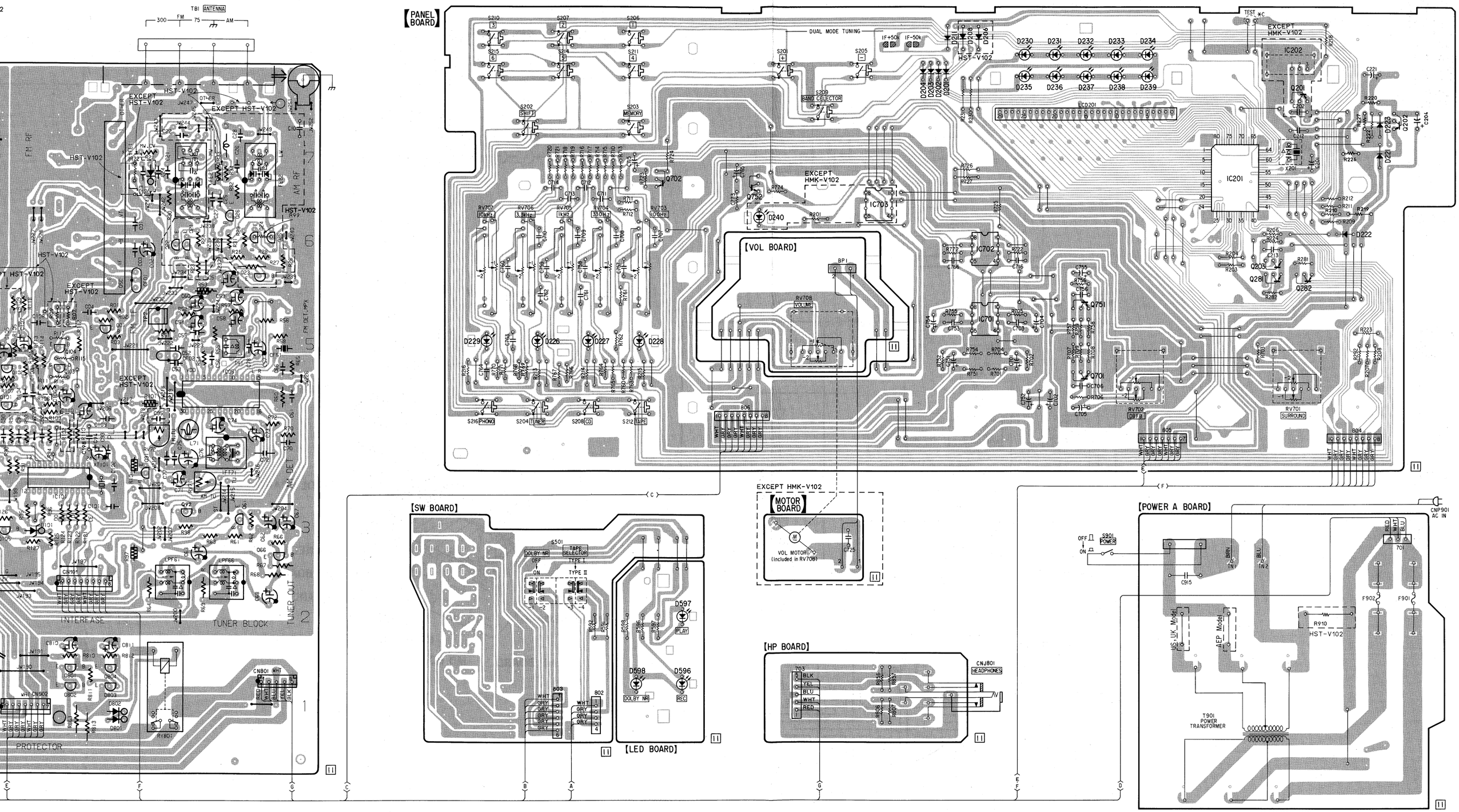
• ○—— : parts extracted from the component side.

3-4. PRINTED WIRING BOARDS



HMK-V82/V102
HST-V102/V202

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

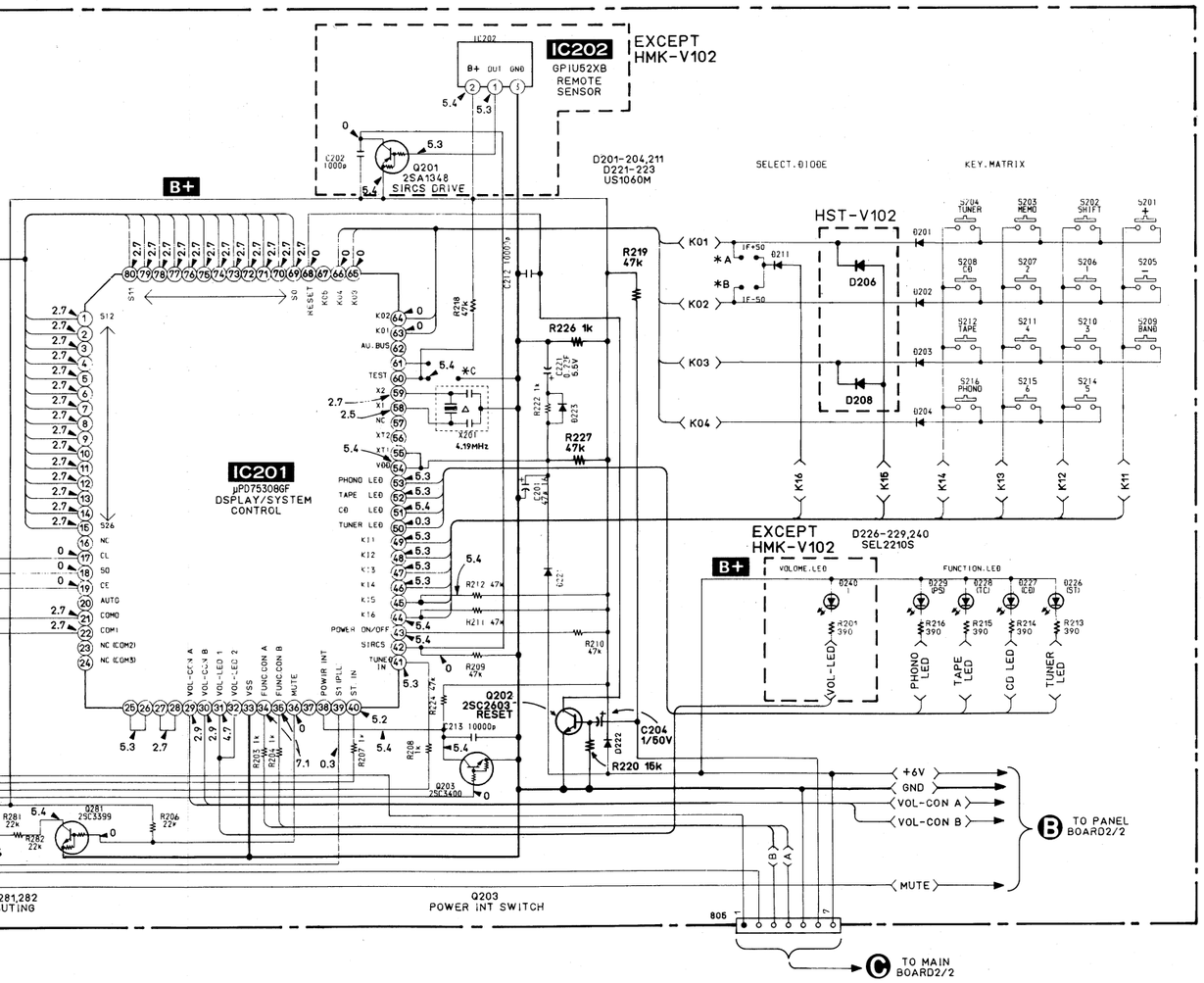


3-5. SCHEMATIC DIAGRAM —TUNER SECTION—

【MAIN BOARD】1/2

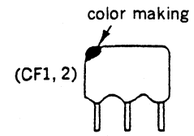
	L71	R52	R60	R62	R65	R67
EXCEPT HST-V102E	4.7 mH	22K	4.7K	820	4.7K	820
HST-V102	1mH	8.2K	5.1K	1.2K	5.1K	1.2K

【PANEL BOARD】1/2



Note on Ceramic Filter (C1, 2) Replacement.

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency Therefore FM IF offset adjustment by jumpers (* A, * B) is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



○: Connected
×: not Connected

Ceramic filter		Mount		FM intermediate fequency (MHz)
Color mark	Center frequency (MHz)	IF-50K * B	IF+50K * A	
white	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.650

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i. e. of same color coding, should be used for CF1 and CF2.

When replacing the ceramic filters, perform the FM Di-scriminator Adjustment.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ Line
- B− : B− Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PB (DECK A)

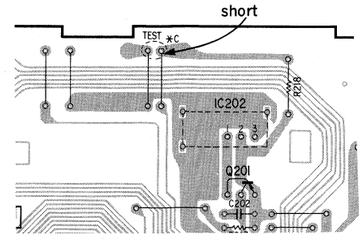
TEST-MODE BY DISPLAY-CONTROL MICROCOMPUTER (IC201)

- If the power is turned on with the terminals of TEST (* C) shorted, all the segments of LCD201 will light.
- When a this unit is delivered or the capacitor (C221) which supplies backup power to IC201 is shorted. the following frequencies will be restored into the internal memories of IC201.
- After repair, return the memory to the preceding state (content).

FM		MW		LW	
1	87.5MHz	1	531kHz	1	153kHz
2	93.0MHz	2	603kHz	2	173kHz
3	98.0MHz	3	999kHz	3	216kHz
4	103.0MHz	4	1404kHz	4	261kHz
5	108.0MHz	5	1602kHz	5	279kHz
Last Channel	87.5MHz	Last Channel	531kHz	Last Channel	153kHz

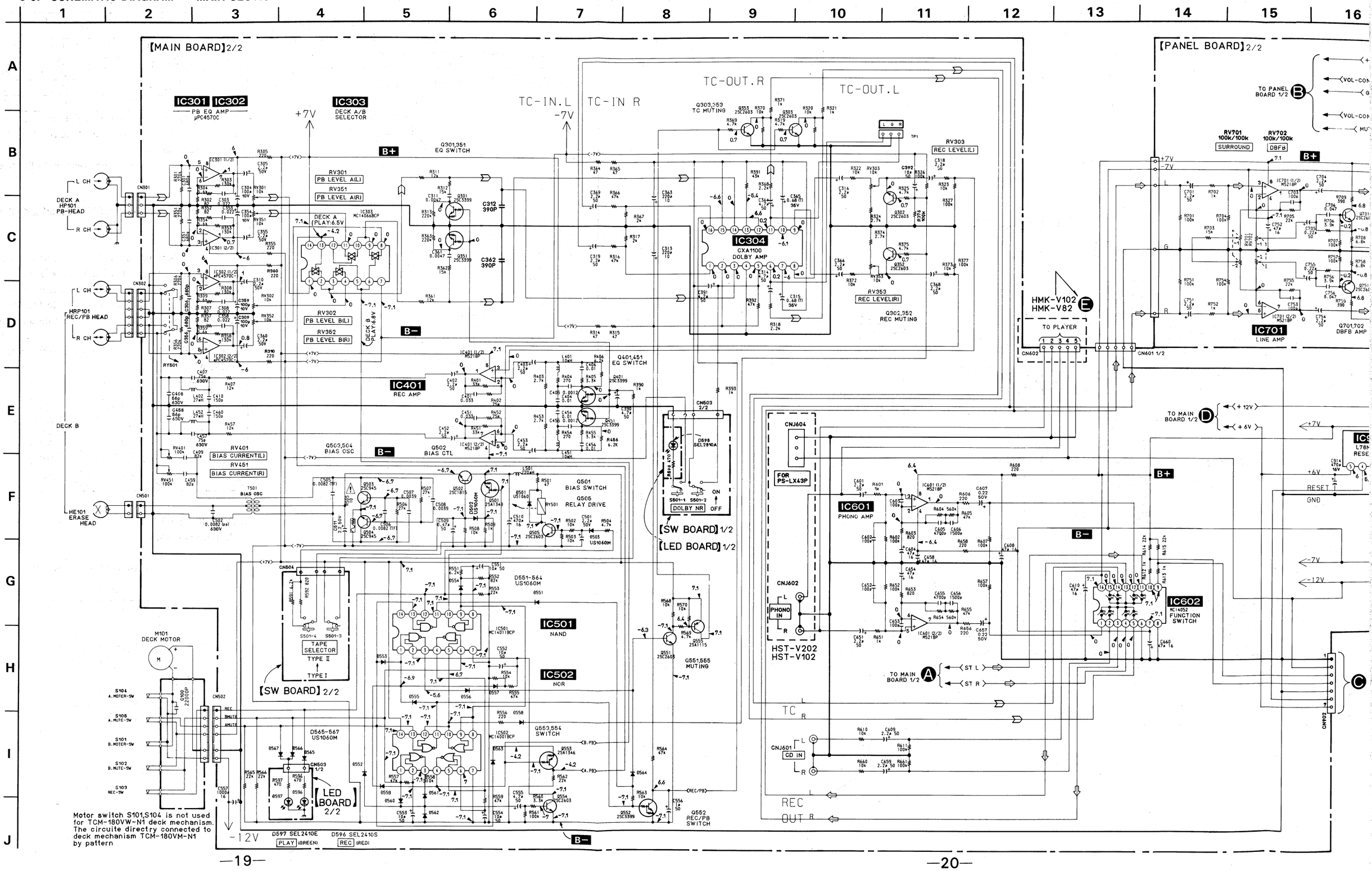
CONTROL BOARD —Conductive Side—

PANEL BOARD Location (27, A) see page 14



HMK-V82/V102
HST-V102/V202

3-6. SCHEMATIC DIAGRAM —MAIN SECTION—



HMK-V82/V102
HST-V102/V202

14 15 16 17 18 19 20 21 22 23 24 25

A B C D E F G H I J

ANEL BOARD] 2/2

TO PANEL BOARD 1/2 B

+6V
VOL-CON B
GND
VOL-CON A
MUTE

R727 22k
R726 22k

[MOTOR BOARD]
EXCEPT HMK-V102

DRIVE 2
DRIVE 1
IC703
LB1639
VOL MOTOR AMP

C726 0.01
VOL MOTOR (included in RV708)

RV701 100k/100k SURROUND
RV702 100k/100k DBFB
B+
B−

RV703 250k/250k 100Hz
RV704 250k/250k 330Hz
RV705 250k/250k 1KHz
RV706 250k/250k 3.3KHz
RV707 250k/250k 10KHz

IC701 (1/2) M5218P
IC701 (2/2) M5218P
IC701 LINE AMP
Q701,702 DBFB AMP

IC702 GRAPHIC AMP

Q702 2SC5622 MUTING
Q752 2SC5622 MUTING
RV708 100k/100k VOLUME

IC801 IC851
POWER AMP
IC801 SI-18751
IC851 SI-18751

[HP BOARD]
CNJ801 HEADPHONES
CN801
CNJ802 SPEAKER
CNJ803 SURROUND SPEAKER
EXCEPT HST-V102

Q801 US1060M
Q802 US1060M
RY801

Q803,804 PROTECT
Q803 2SC2603
Q804 2SC2603
Q801 2SC2603
Q802 2SC2603
Q801,802 RELAY DRIVE

HST-V102
F903 800mA

EXCEPT HST-V102
ICP 901

IC901
L78MR06
RESET/REG

+12V
+6V
+7V
RESET
GND
-7V
-12V

Q903 2SB1761
Q901 2SB1761
Q904 2SB1187
Q902 2SB1187
Q901-904 — REG —

ICP 902
EXCEPT HST-V102
F904 800mA
HST-V102

[POWER A BOARD]
S901
POWER OFF ON
F901 3.15A
C901 0.01 250V
C991 0.22
C992 0.22
AEP
D901 RBA-402
T901 POWER TRANSFORMER
F902 3.15A
HST-V102
R910 3.3M
CNP901
AC IN

TO PANEL BOARD 1/2 C
CN902

TURNTABLE
SI06 PHONO MOTOR SW
M3 PHONO MOTOR
RED
ORG
BLU
WHT
BLK
RED
CARTRIDGE
HMK-V102
HMK-V82

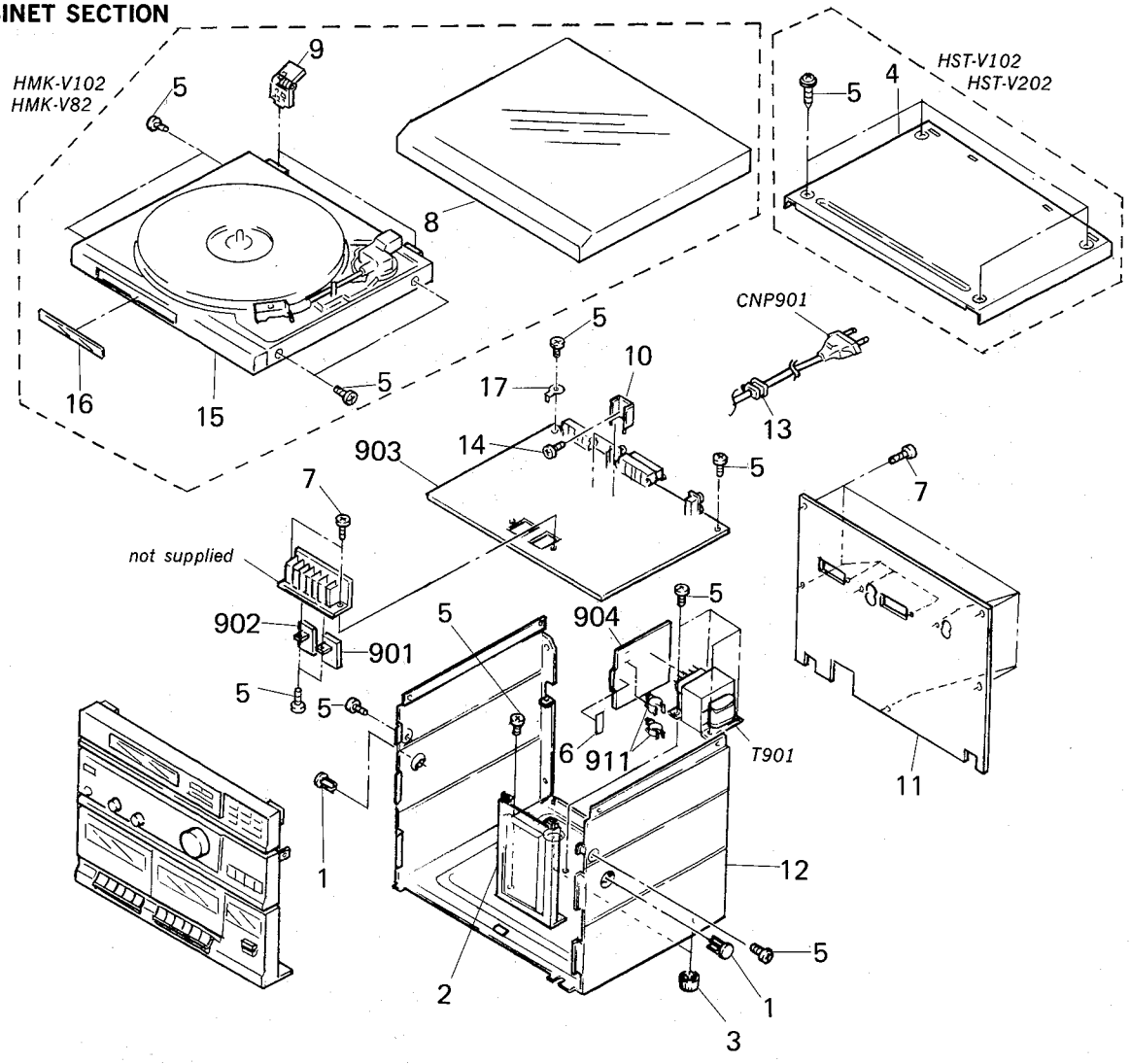
SECTION 4
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color

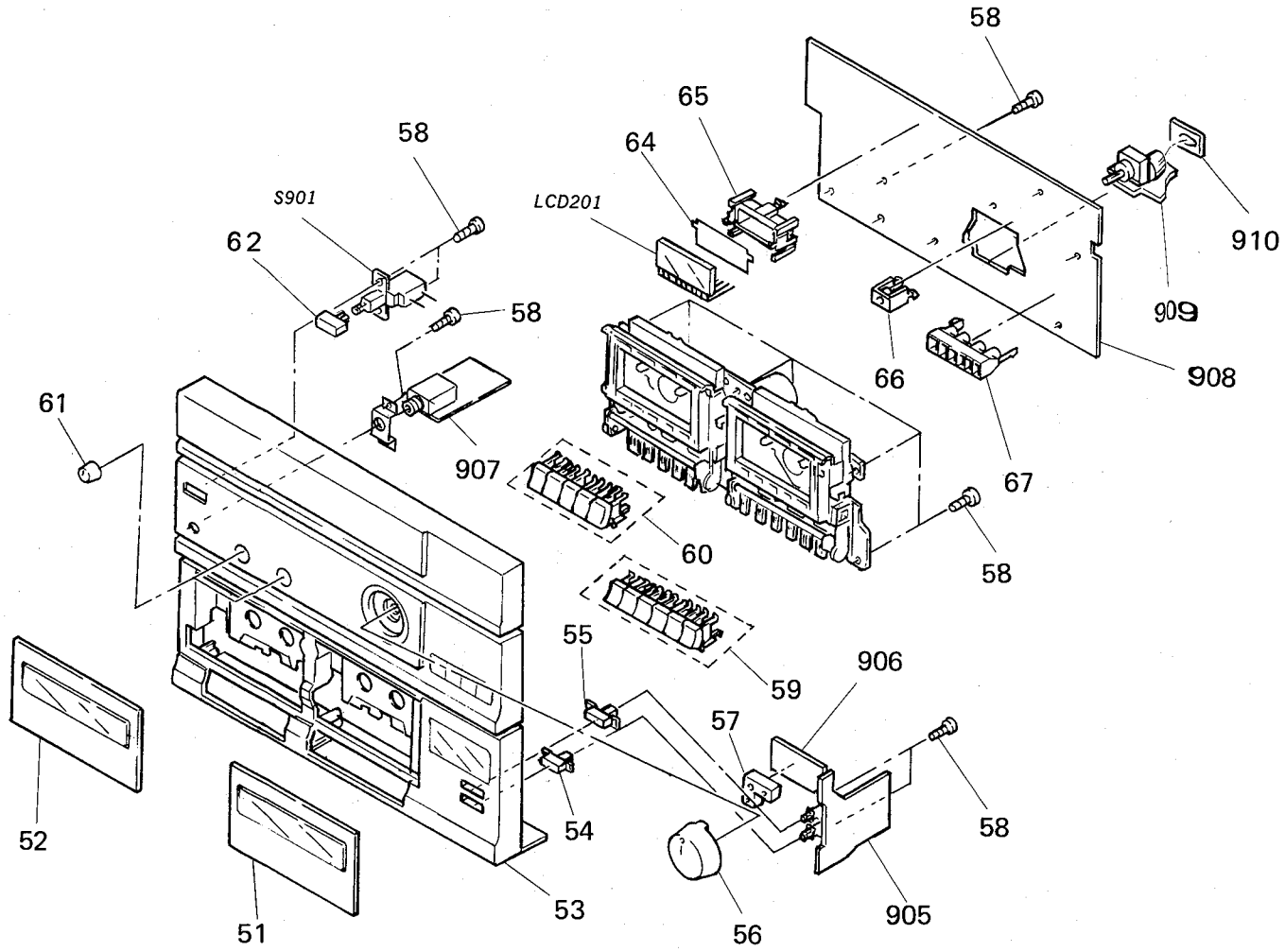
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-1. CABINET SECTION



No.	Part No.	Description	Remarks
1	4-935-307-03	HOLDER, PC BOARD	
2	*4-935-306-11	BRACKET (H)	
3	4-933-601-01	FOOT	
4	4-935-304-13	(HST-V102/V202)...CASE (T)	
5	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
6	*3-701-946-25	(HST-V102)...LABEL (3.15A 125V), FUSE	
7	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
8	X-4895-506-1	(HMK-V82/V102)...COVER ASSY, DUST	
9	4-895-936-01	(HMK-V82/V102)...HINGE	
10	*4-880-403-11	HEAT SINK	
11	4-930-776-11	(HMK-V82).....PANEL, BACK	
	4-930-776-31	(HMK-V102).....PANEL, BACK	
	4-935-315-11	(HST-V202:AEP) ...PANEL, BACK	
	4-935-315-21	(HST-V202:UK).....PANEL, BACK	
	*4-935-316-31	(HST-V102).....PANEL, BACK	
12	*4-935-301-61	(HMK-V102/V82)....CHASSIS	
	*4-935-301-71	(HST-V102/V202)...CHASSIS	
13	*3-703-244-00	BUSHING (2104), CORD	
14	7-682-548-04	SCREW +BVTT 3X8 (S)	
15	4-895-937-01	(HMK-V82/V102)...CABINET, MAIN	
16	4-895-938-01	(HMK-V82/V102)...WINDOW, FRONT	
17	*4-904-446-01	PLATE, GROUND	
901	*1-633-063-11	PC BOARD, IC-L	
902	*1-633-064-11	PC BOARD, IC-R	
903	*A-4334-136-A	(HMK-V102/V82:AEP)...MOUNTED PCB, MAIN	
	*A-4334-150-A	(HMK-V102:UK).....MOUNTED PCB, MAIN	
	*A-4334-468-A	(HST-V202:AEP).....MOUNTED PCB, MAIN	
	*A-4334-474-A	(HST-V202:UK).....MOUNTED PCB, MAIN	
	*A-4334-811-A	(HST-V102:US).....MOUNTED PCB, MAIN	
⚠CNP901	1-551-478-00	(HST-V102)...CORD, POWER	
⚠CNP901	1-555-750-00	(AEP).....CORD, POWER	
⚠CNP901	1-556-035-00	(UK).....CORD, POWER	
904	*1-633-065-11	PC BOARD, POWER (A)	
911 ⚠	*1-533-189-11	HOLDER, FUSE	
T901 ⚠	1-449-873-21	(EXCEPT HST-V102)...TRANSFORMER, POWER	
T901 ⚠	1-450-046-21	(HST-V102).....TRANSFORMER, POWER	

4-2. FRONT PANEL SECTION

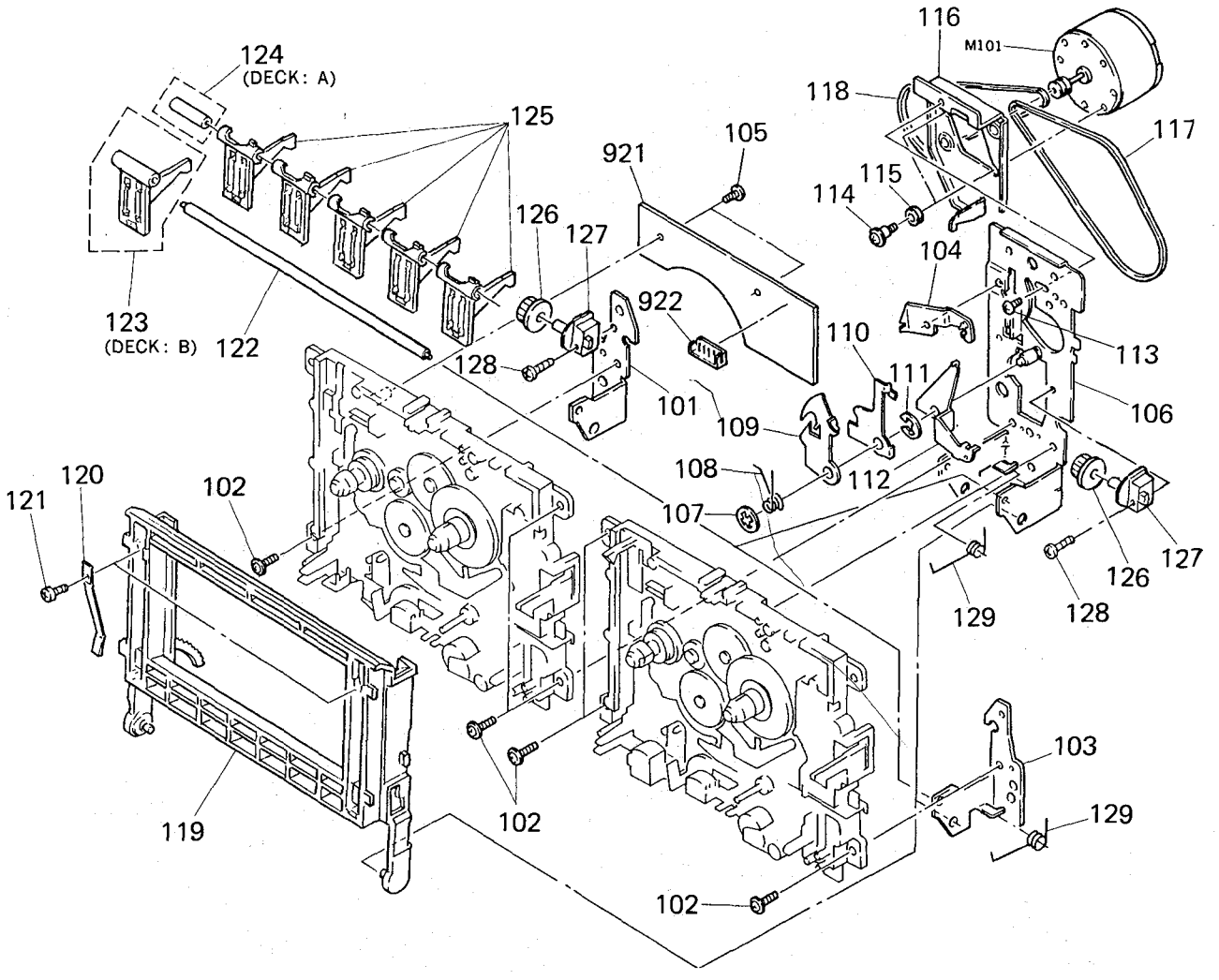


No.	Part No.	Description	Remarks
51	A-4323-381-A	(EXCEPT HST-V102) ...LID (B) ASSY, CASSETTE	
	A-4323-489-A	(HST-V102)....LID (B) ASSY, CASSETTE	
52	A-4323-380-A	(EXCEPT HST-V102) ...LID (A) ASSY, CASSETTE	
	A-4323-488-A	(HST-V102)....LID (A) ASSY, CASSETTE	
53	A-4323-384-A	(HMK-V102)...PANEL ASSY, FRONT	
	A-4323-443-A	(HST-V202)...PANEL ASSY, FRONT	
	A-4323-472-A	(HST-V102)...PANEL ASSY, FRONT	
	A-4323-546-A	(HMK-V82) ...PANEL ASSY, FRONT	
54	4-930-794-31	BUTTON (DT)(DOLBY)	
55	4-930-794-21	BUTTON (DT)(TAPE)	
56	A-4323-382-A	KNOB (VO) ASSY	
57	*4-930-793-11	HOLDER (TC), LED	
58	4-928-635-21	SCREW, +BV (2.6X10) TAPPING	
59	4-930-797-11	BUTTON (MD-B)	
60	4-930-796-11	BUTTON (MD-A)	
61	4-930-784-11	KNOB (SD)	

No.	Part No.	Description	Remarks
62	4-930-783-11	BUTTON (PO)	
64	*4-935-303-11	ILLUMINATOR (LCD)	
65	*4-930-786-11	HOLDER (LL)	
66	*4-930-781-11	(EXCEPT HMK-V102)...HOLDER (VO), LED	
67	*4-930-780-11	HOLDER (FU), LED	
905	*1-633-067-11	PC BOARD, SW	
906	*1-633-066-11	PC BOARD, LED	
907	*1-633-068-11	PC BOARD, HP	
908	*A-4334-132-A	(HMK-V82:AEP,HST-V202:AEP) ...MOUNTED PCB, PANEL	
	*A-4334-146-A	(HMK-V102:UK)....MOUNTED PCB, PANEL	
	*A-4334-188-A	(HMK-V102:AEP)...MOUNTED PCB, PANEL	
	*A-4334-471-A	(HST-V202:UK)....MOUNTED PCB, PANEL	
	*A-4334-809-A	(HST-V102:US)....MOUNTED PCB, PANEL	
909	*1-633-070-11	PC BOARD, VOL	
910	*1-633-072-11	(EXCEPT HMK-V102)...PC BOARD, MOTOR	
LCD201	1-808-810-11	DISPLAY PANEL, LIQUID CRYSTAL	
S901	⚠1-572-109-11	SWITCH, PUSH (AC POWER)(1 KEY)	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

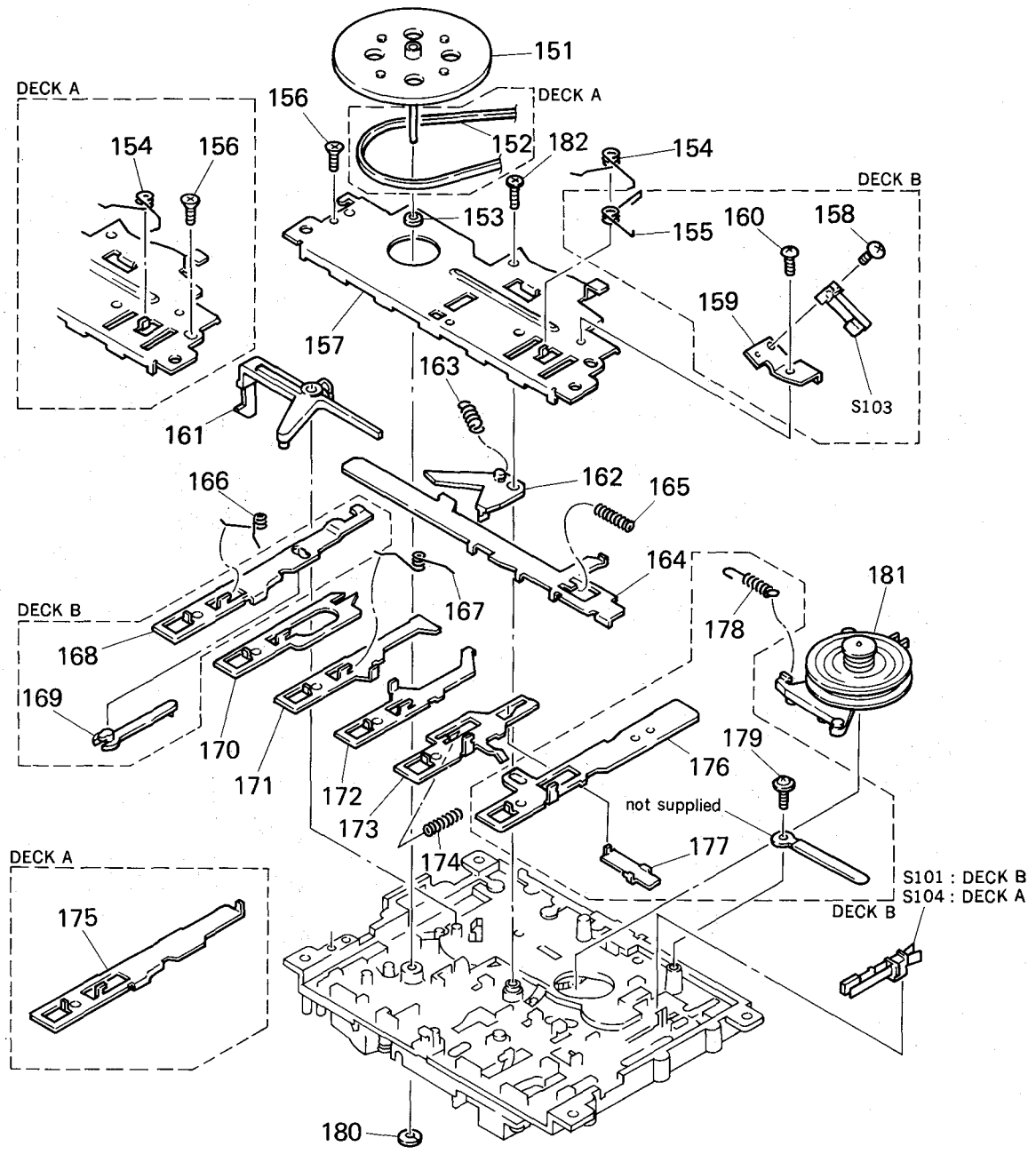
4-3. MECHANISM DECK SECTION (1) (TCM-YMW47C-97) HMK-V102 HST-V201/V202



Ref.No	Part No.	Description	Remark
101	3-390-854-01	HOLDER (LEFT), BUTTON	
102	7-621-770-67	SCREW (BVTT WH 2.6X6)	
103	3-392-164-01	HOLDER (RIGHT), BUTTON	
104	4-895-002-01	P CONNECT LEVER ASSY	
105	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
106	3-390-859-01	JOINT ASSY	
107	7-624-190-11	STOP RING 3, TYPE-CS	
108	4-895-003-01	SRING	
109	4-895-004-01	LOCK PLATE	
110	4-895-005-01	UNLOCK PLATE	
111	7-624-106-04	STOP RING 3.0, TYPE -E	
112	4-895-006-01	CONNECT LEVER	
113	7-621-770-87	SCREW +PTT 2.6X5 (S)	
114	3-390-850-01	SCREW MOTOR	
115	*3-390-853-01	CUSHION	
116	*3-390-851-01	BRACKET, MOTOR	

Ref.No	Part No.	Description	Remark
117	3-390-847-01	BELT	
118	3-390-852-01	BELT, SQUARE	
119	3-390-801-01	CASSETTE CASE	
120	4-894-951-01	KEEP PLATE	
121	7-685-103-19	T. SCREW	
122	4-894-970-01	BUTTON SHAFT W	
123	3-390-856-01	(DECK B)....HOLDER (RIGHT), BUTTON	
124	4-895-018-01	(DECK A)....SPACER	
125	4-894-971-01	BUTTON LEVER	
126	3-392-144-01	DUMPER GEAR	
127	3-392-143-01	HOLDER GEAR	
128	7-685-856-01	D. SCREW	
129	4-894-973-01	SPRING	
921	*1-634-251-11	PC BOARD, TRANSLATION	
922	*1-564-499-11	PIN, CONNECTOR 6P	
M101	X-3390-803-1	MOTOR ASSY	

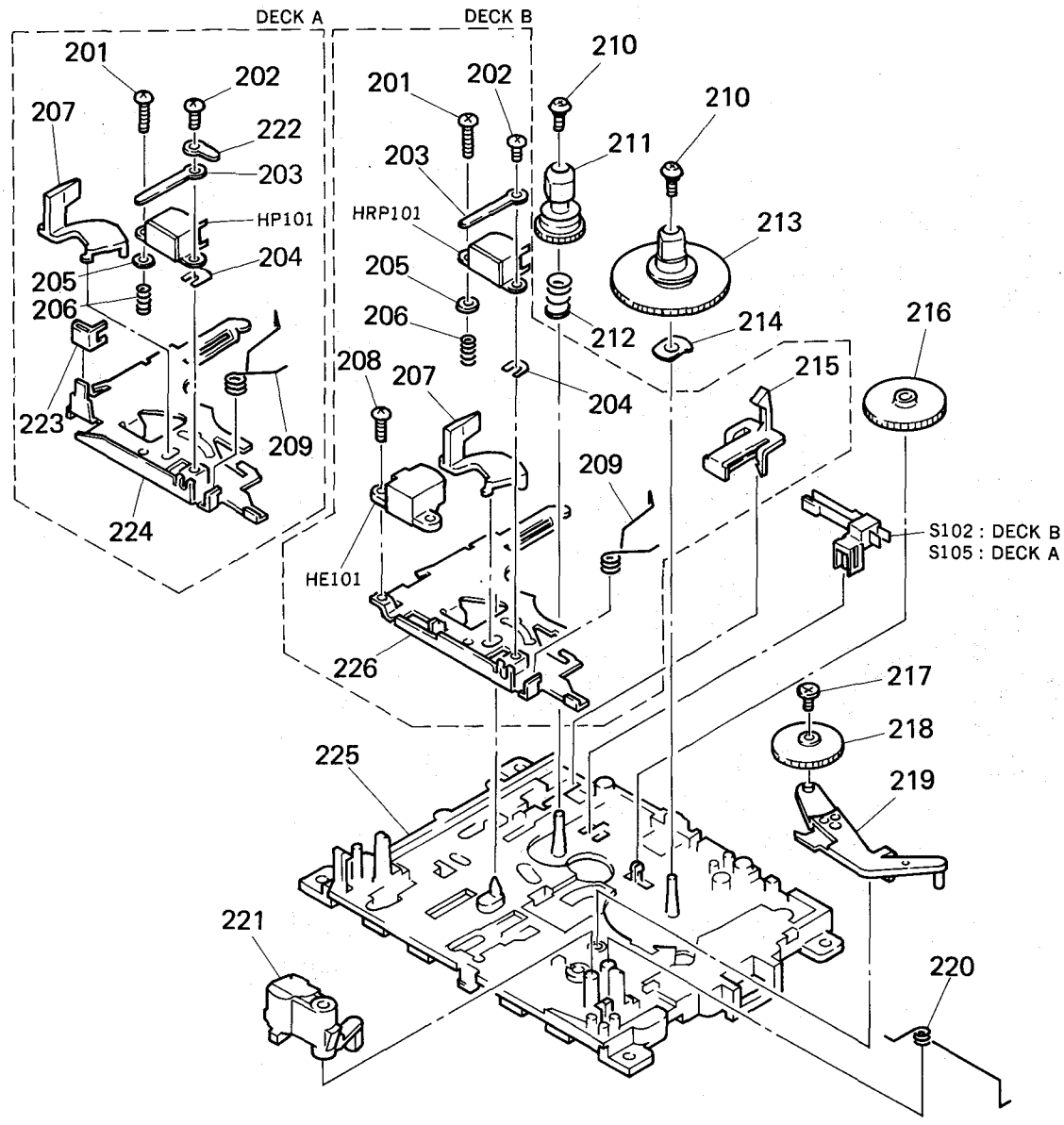
4-4. MECHANISM DECK SECTION (2) HMK-V102
(TCM-YMW47C-97) HST-V102/V202



Ref.No	Part No.	Description	Remark
151	3-390-806-11	FW ASSY	
152	3-561-892-00	BELT, SQUARE	
153	4-894-976-01	P WASHER	
154	4-894-978-01	SPRING	
155	4-894-979-01	SPRING	
156	7-685-234-19	SCREW +KTP 2.6X8 TYPE2NON-SLIT	
157	*4-894-977-01	BACK PLATE	
158	7-621-770-87	SCREW +PTT 2.6X5 (S)	
159	3-390-855-01	PLATE, PSW	
160	7-621-255-25	SCREW +PTT 2X4 (S)	
161	*4-894-980-01	EJECT ARM	
162	4-894-982-01	S ARM	
163	3-390-809-01	SPRING	
164	4-894-984-01	FUNCTION LEVER	
165	4-894-983-01	C SPRING	
166	4-894-989-01	SPRING	
167	4-894-999-01	SPRING	
168	*4-894-986-01	PAUSE LEVER	

Ref.No	Part No.	Description	Remark
169	4-894-985-01	PAUSE ARM	
170	*4-894-987-01	S.E LEVER	
171	*4-894-988-01	FF LEVER W	
172	*4-894-990-01	REW LEVER	
173	3-390-810-01	LEVER, PLAY	
174	3-390-827-01	SPRING	
175	4-895-011-01	PAUSE LEVER W	
176	*4-894-994-01	REC LEVER	
177	3-390-811-01	LEVER, REC STOP	
178	3-390-848-01	SPRING, TENSION	
179	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
180	4-894-969-01	N WASHER	
181	4-894-997-01	POWER ARM ASSY	
182	3-390-822-01	BUSHING (C)	
S101	1-570-715-11	(DECK B)....SWITCH, LEAF	
S103	1-572-040-11	(DECK B)....SWITCH, LEAF	
S104	1-570-715-11	(DECK A)....SWITCH, LEAF	

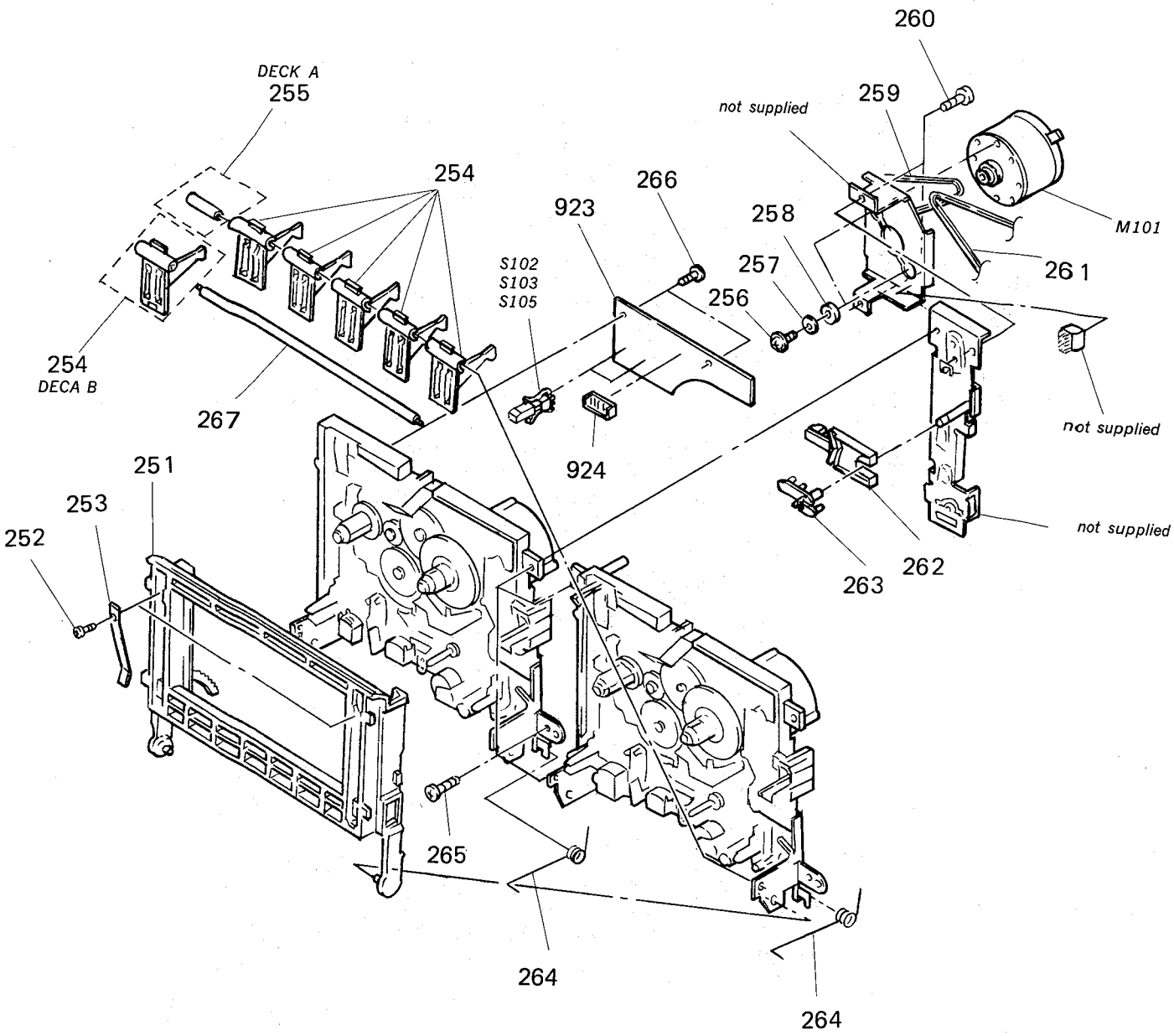
4-5. MECHANISM DECK SECTION (3) HMK-V102
(TCM-YMW47C-97) HST-V102/V202



Ref.No	Part No.	Description	Remark
201	7-621-255-55	SCREW,TOTSU P 2X8	
202	7-621-255-15	SCREW +P 2X3	
203	3-390-819-01	LUG	
204	3-390-821-01	SPACER	
205	3-390-823-01	WASHER, F	
206	4-894-955-01	C SPRING	
207	4-894-956-01	TAPE SENSOR	
208	7-621-771-06	SCREW +B 2X5	
209	3-390-804-01	SPRING, PINCH ARM	
210	3-390-803-01	BUSHING (D)	
211	4-894-953-01	S REEL	
212	4-894-954-01	C SPRING	
213	4-894-963-01	T REEL ASSY	
214	3-390-820-01	SPRING, LEAF	
215	4-894-958-01	INTERLOCK ARM	
216	4-894-964-01	F GEAR	

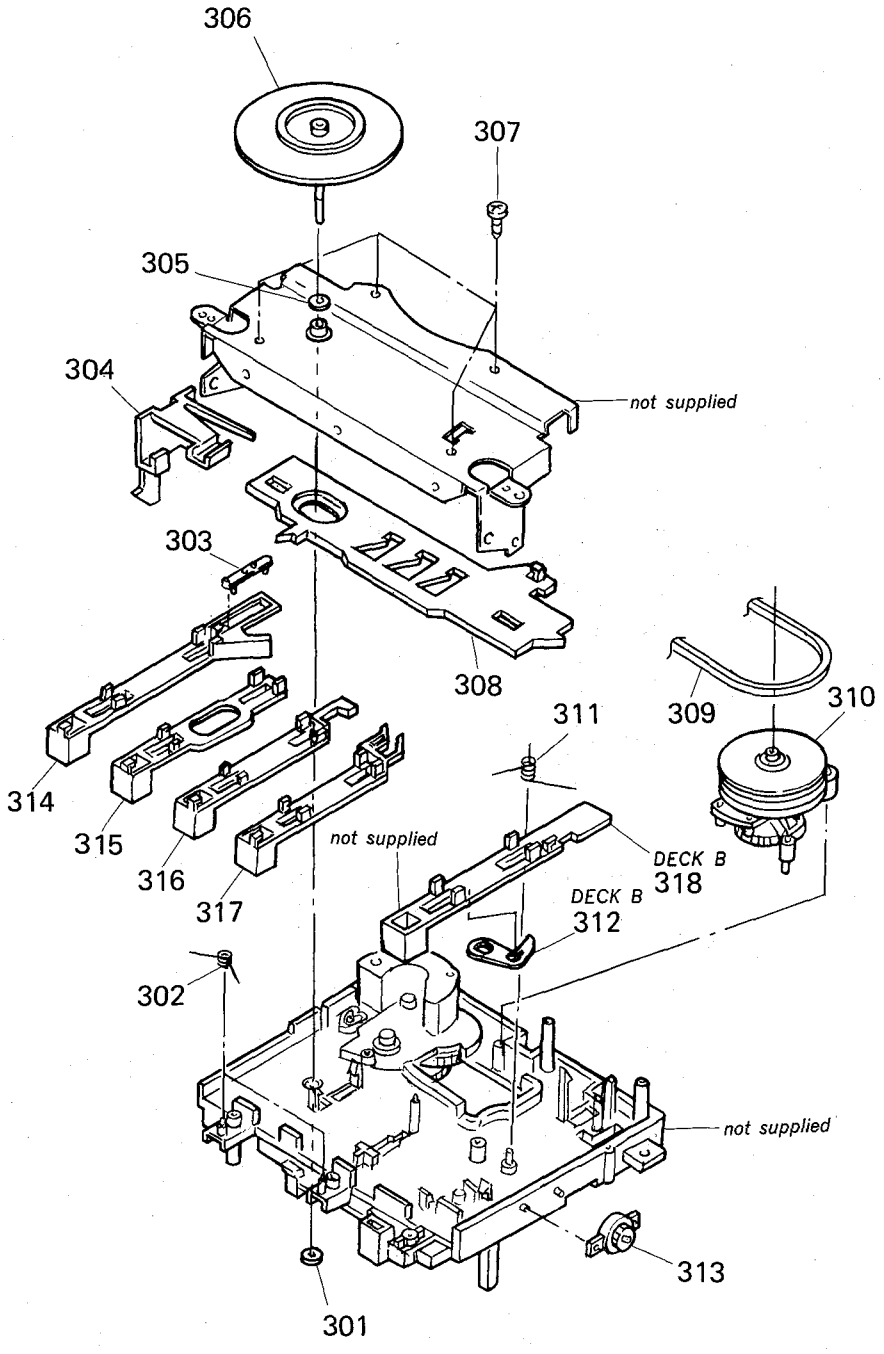
Ref.No	Part No.	Description	Remark
217	4-894-960-01	BUSH	
218	4-894-961-01	IDLER GEAR	
219	4-894-962-01	IDLER ARM	
220	4-894-967-01	SPRING	
221	3-390-805-01	ROLLER ASSY, PINCH	
222	3-390-817-01	LUG	
223	4-895-016-01	TAPE GUIDE	
224	4-895-015-01	HEAD BASE	
225	4-894-968-01	CHASSIS ASSY	
226	*4-894-957-01	HEAD BASE B	
HE101	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HP101	1-543-672-11	(DECK A)....HEAD, MAGNETIC (REC/PB)	
HRP101	1-543-672-11	(DECK B)....HEAD, MAGNETIC (REC/PB)	
S102	1-570-430-11	(DECK B)....SWITCH, LEAF	
S105	1-570-430-11	(DECK A)....SWITCH, LEAF	

4-6. MECHANISM DECK SECTION (4) (TCM-180VW-N1) HMK-V82/V102 HST-V102/V202



No.	Part No.	Description	Remarks
251	3-358-266-01	HOLDER, CASSETTE	
252	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
253	3-358-209-01	SPRING (CASSETTE HOLDER), LEAF	
254	3-358-210-01	LEVER (BUTTON BASE C)	
255	*3-358-216-01	(DECK A)...COLLAR	
256	3-570-027-00	SCREW, MOTOR	
257	7-623-925-01	WASHER 4.0, NYLONE	
258	3-570-118-00	CUSHION, MOTOR	
259	3-358-230-01	BELT (A1)	
260	7-621-770-67	SCREW +BVTT 2.6X6 (S)	
261	3-358-211-01	BELT (W)	
262	3-358-202-01	SLIDER (TRIGGER)	
263	3-358-203-01	LEVER (TRIGGER)	
264	3-358-229-01	SPRING (LOADING), TORSION	
265	7-621-770-XX	SCREW +BVTT 2.6X8 (S)	
266	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
267	3-358-242-01	SHAFT (BUTTON SHAFT)	
923	*1-635-159-11	PC BOARD, SW	
924	*1-564-499-11	(TCM-180VW-N1)...PIN, CONNECTOR 6P	
M101	X-3358-201-1	MOTOR (W) ASSY	
S102	1-571-736-11	(TCM-180VW-N1)...SWITCH, LEAF	
S103	1-571-736-11	(TCM-180VW-N1)...SWITCH, LEAF	
S105	1-571-736-11	(TCM-180VW-N1)...SWITCH, LEAF	

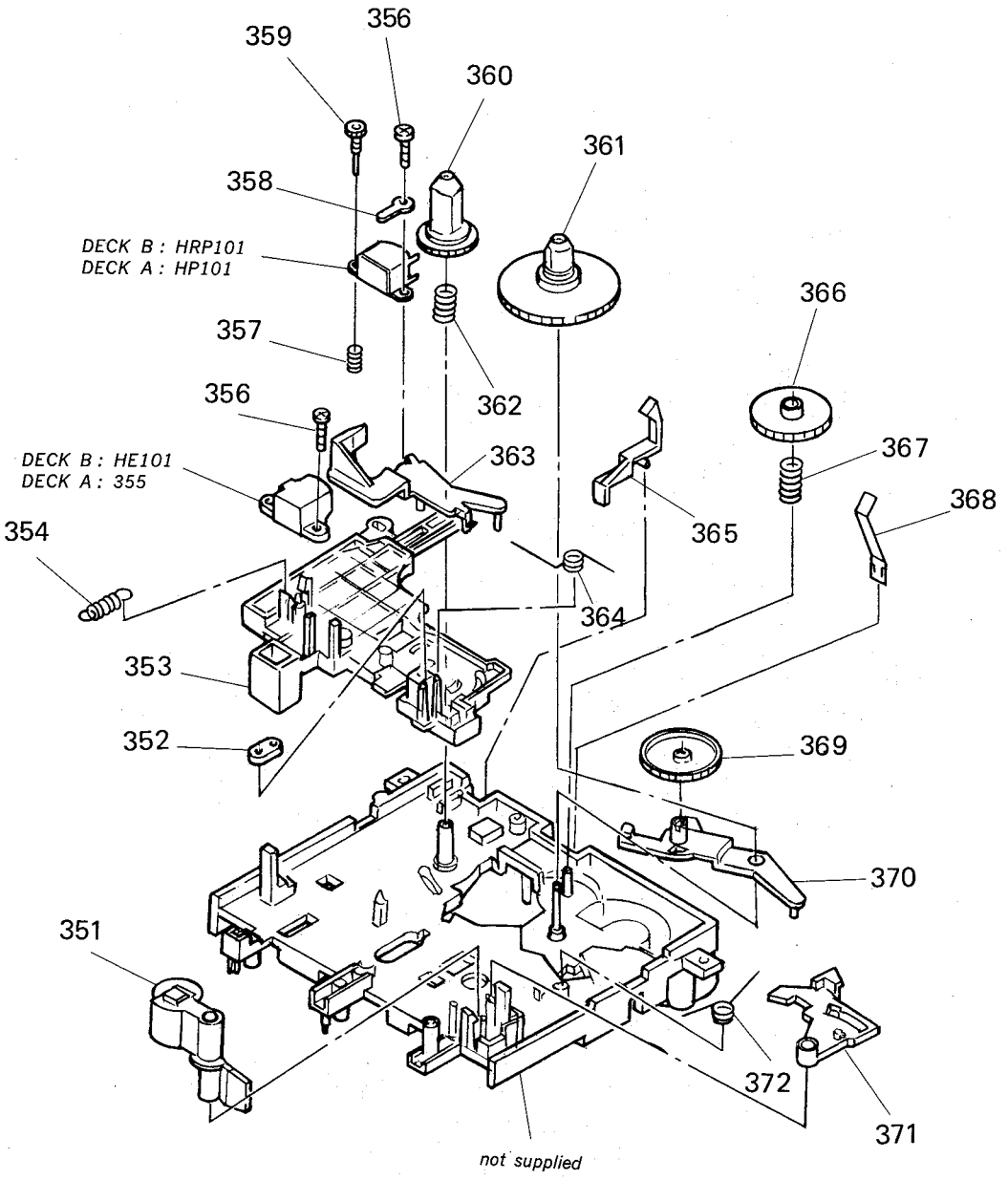
4-7. MECHANISM DECK SECTION (5) HMK-V82/V102 (TCM-180VW-N1) HST-V102/V202



No.	Part No.	Description	Remarks
301	7-623-921-01	WASHER 1.7, NYLONE	
302	3-358-232-01	SPRING (S-P F-R), TORSION	
303	*3-358-226-01	LEVER (PAUSE LEVER)	
304	*3-358-261-01	SLIDER (HOLDER LOCK)	
305	3-701-437-01	WASHER	
306	X-3358-205-1	(DECK A)...FLYWHEEL (A) ASSY	
	X-3358-206-1	(DECK B)...FLYWHEEL (B) ASSY	
307	7-685-133-19	SCREW +P 2.6X6 TYPE1	
308	*3-358-249-01	SLIDER (LOCK PLATE)	
309	3-358-230-01	BELT (A1)	
310	X-3358-202-1	LEVER (FR ARM) ASSY	

No.	Part No.	Description	Remarks
311	3-358-214-01	(DECK A)...SPRING (LOCK), TORSION	
	3-358-233-01	(DECK B)...SPRING (REC-LOCK), TORSION	
312	*3-358-204-01	(DECK B)...LEVER (REC SAFETY)	
313	3-319-224-31	DAMPER, SMALL	
314	3-358-260-01	SLIDER (PAUSE)	
315	3-358-256-01	SLIDER (STOP/EJECT)	
316	3-358-257-01	SLIDER (FF)	
317	3-358-258-31	SILDER (REW)	
318	3-358-259-31	(DECK B).... SILDER (REC)	

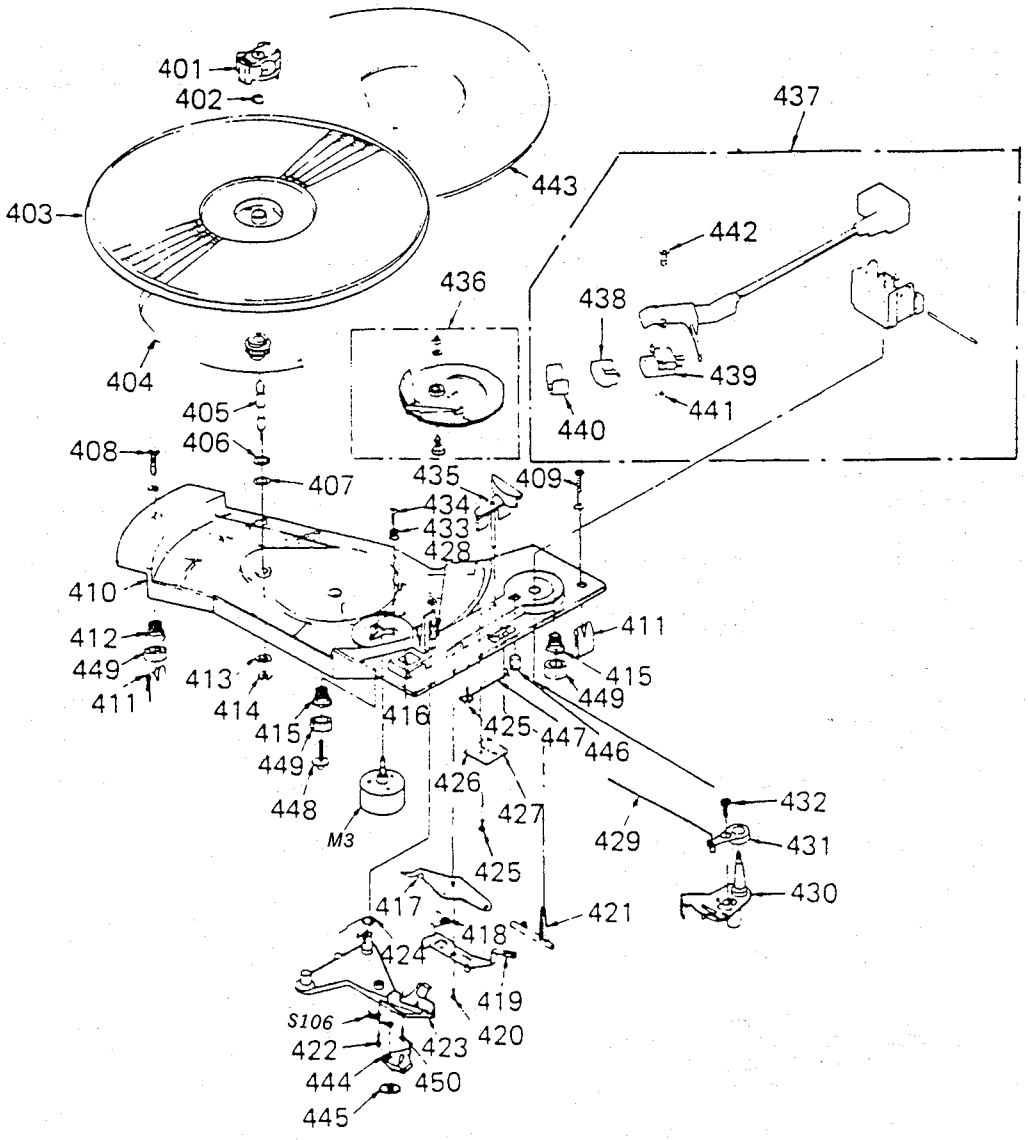
4-8. MECHANISM DECK SECTION (6) (TCM-180VW-N1) HMK-V82/V102 HST-V102/V202



No.	Part No.	Description	Remarks
351	X-3358-204-1	LEVER (PINCH LEVER) ASSY	
352	*3-358-215-01	BUSHING (WIRE KIT RETAINER)	
353	3-358-265-01	SLIDER (HEAD PC BOARD A)	
354	3-358-217-01	SPRING, TENSION	
355	3-358-285-01	(DECK A)...GUIDE, TAPE	
356	7-685-105-19	TPG +P 2X8, TYPE 2, NON-SLIT	
357	3-358-234-01	SPRING (AZIMUTH), COMPRESSION	
358	7-623-505-01	LUG, 2	
359	3-358-213-01	SCREW, AZIMUTH	
360	3-358-248-01	GEAR (SUPPLY REEL)	
361	X-3358-203-1	TABLE (T) ASSY, REEL	
362	3-358-208-01	SPRING (SUPPLY), COMPRESSION	
363	*3-358-251-01	LEVER (TENSION DETECTION ARM)	

No.	Part No.	Description	Remarks
364	3-358-228-01	SPRING, TORSION	
365	*3-358-255-01	LEVER (GB LEVER)	
366	*3-358-224-01	GEAR (FF GEAR)	
367	3-358-207-01	SPRING (FF GEAR), COMPRESSION	
368	3-358-227-01	SPRING, LEAF	
369	*3-358-225-01	GEAR (TU GEAR)	
370	*3-358-252-01	LEVER (TU ARM)	
371	*3-358-253-01	LEVER (SHUT-OFF LEVER)	
372	3-358-243-01	SPRING (TU-SHUT), TORSION	
HE101	1-543-673-11	(DECK B)...HEAD, MAGNETIC (ERASE)	
HP101	1-543-672-11	(DECK A)...HEAD, MAGNETIC (REC/PB)	
HRP101	1-543-672-11	(DECK B)...HEAD, MAGNETIC (REC/PB)	

4-9. PLAYER SECTION HMK-V82/V102



No.	Part No.	Description	Remarks
401	4-895-521-01	ADAPTOR (B), 45	
402	4-895-020-01	E RING DIA.6	
403	X-4895-501-2	TURNTABLE ASSY	
404	4-895-022-01	BELT	
405	4-895-524-01	SPINDLE, CENTER	
406	4-895-024-01	POLY WASHER	
407	4-895-025-01	FLAT WASHER	
408	*4-895-525-01	SCREW (1), TRANSPORT	
409	*4-895-526-01	SCREW (2), TRANSPORT	
410	*4-895-028-01	BASE	
411	*4-895-029-01	RETAINING CLIP	
412	*4-895-030-01	SPRING (B)	
413	4-895-031-01	W GEAR	
414	4-895-032-01	NUT	
415	*4-895-033-01	SPRING (A)	
416	4-895-552-01	LID, FUNCTION	
417	4-895-035-01	SPEED SHIFT CAM 45	
418	4-895-036-01	SPRING	
419	4-895-037-01	SPEED SHIFT CAM 33	
420	4-895-038-01	7-CUP 3008	
421	4-895-039-01	CUE LEVER	
422	4-895-040-01	7-BID 2006	
423	*4-895-527-01	ARM, CONTROL	
424	4-895-042-01	ARM, CONTROL	
425	4-895-044-01	7-BID 3008	
426	*4-895-528-01	PLATE, MOTOR	

No.	Part No.	Description	Remarks
427	*4-895-529-01	BASE, SIDE	
428	4-895-046-01	P.U. TUBE HOOK	
429	*4-895-530-01	ROD	
430	*4-895-531-01	CAM	
431	4-895-532-01	CLUTCH	
432	4-895-533-01	SPRING	
433	4-895-049-01	GROMMET (A)	
434	4-895-050-01	SCREW	
435	*4-895-534-01	PLATE, LIFTER	
436	X-4895-502-1	GEAR ASSY, CAM	
437	X-4896-005-1	ARM ASSY, PICK-UP	
438	4-896-147-01	STYLUS	
439	4-896-146-01	CARTRIDGE	
440	*4-896-148-01	COVER, CARTRIDGE	
441	4-896-145-01	NUT	
442	4-896-149-01	2BID 2608ZN3K	
443	4-895-056-01	MAT	
444	*4-895-550-01	CAM	
445	4-303-605-00	PUSH NUT DIA.3	
446	*4-895-058-01	VISCOUS SHAFT	
447	*4-895-059-01	VISCOUS WIRE	
448	4-895-935-01	SCREW	
449	4-895-064-01	SPONGE	
450	7-685-649-79	SCREW (7-BID 3016 ZN3A)	
M3	4-895-034-01	MOTOR ASSY (PLAYER)	
S106	4-895-068-01	LIEF, SW (PLAYER)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description
901	*1-633-063-11	PC BOARD, IC-L
902	*1-633-064-11	PC BOARD, IC-R
903	*A-4334-136-A	(HMK-V102/V82:AEP)...MOUNTED PCB, MAIN
	*A-4334-150-A	(HMK-V102:UK).....MOUNTED PCB, MAIN
	*A-4334-468-A	(HST-V202:AEP).....MOUNTED PCB, MAIN
	*A-4334-474-A	(HST-V202:UK).....MOUNTED PCB, MAIN
	*A-4334-811-A	(HST-V102:US).....MOUNTED PCB, MAIN
904	*1-633-065-11	PC BOARD, POWER (A)
905	*1-633-067-11	PC BOARD, SW
906	*1-633-066-11	PC BOARD, LED
907	*1-633-068-11	PC BOARD, HP
908	*A-4334-132-A	(HMK-V82:AEP,HST-V202:AEP) ...MOUNTED PCB, PANEL
	*A-4334-146-A	(HMK-V102:UK)....MOUNTED PCB, PANEL
	*A-4334-188-A	(HMK-V102:AEP)...MOUNTED PCB, PANEL
	*A-4334-471-A	(HST-V202:UK)....MOUNTED PCB, PANEL
	*A-4334-809-A	(HST-V102:US)....MOUNTED PCB, PANEL
909	*1-633-070-11	PC BOARD, VOL
910	*1-633-072-11	(EXCEPT HMK-V102)...PC BOARD, MOTOR
911 ⚠	*1-533-189-11	HOLDER, FUSE
921	1-634-251-11	(TCM-YMW47C-97)...PC BOARD, TRANSLATION
922	*1-564-499-11	(TCM-YMW47C-97)...PIN, CONNECTOR 6P
923	*1-635-159-11	(TCM-180VW-N1)...PC BOARD, SW
924	*1-564-499-11	(TCM-180VW-N1)...PIN, CONNECTOR 6P
BP1	*1-508-829-12	(EXCEPT HMK-V102)...H TYPE BASE POST
C001	1-162-294-31	CERAMIC 0.001MF 10% 50V
C002	1-124-477-11	ELECT 47MF 20% 16V
C003	1-161-379-00	CERAMIC 0.01MF 30% 16V
C004	1-162-215-31	CERAMIC 47PF 5% 50V
C010	1-161-494-00	(EXCEPT HST-V102) ...CERAMIC 0.022MF 25V
C021	1-101-006-00	CERAMIC 0.047MF 50V
C022	1-101-006-00	(EXCEPT HST-V102) ...CERAMIC 0.047MF 50V
C023	1-161-494-00	(EXCEPT HST-V102) ...CERAMIC 0.022MF 25V
C024	1-101-006-00	CERAMIC 0.047MF 50V
C025	1-101-006-00	(EXCEPT HST-V102) ...CERAMIC 0.047MF 50V
C026	1-101-006-00	(EXCEPT HST-V102) ...CERAMIC 0.047MF 50V
C027	1-161-374-11	(EXCEPT HST-V102) ...CERAMIC 0.0015MF 30% 16V
C028	1-102-120-00	(EXCEPT HST-V102) ...CERAMIC 0.0018MF 10% 50V
C051	1-124-477-11	ELECT 47MF 20% 16V
C052	1-161-379-00	CERAMIC 0.01MF 30% 16V
C053	1-101-006-00	CERAMIC 0.047MF 50V
C054	1-123-382-00	ELECT 3.3MF 20% 50V
C055	1-161-494-00	CERAMIC 0.022MF 25V
C056	1-161-329-00	CERAMIC 0.0068MF 30% 16V
C057	1-124-791-11	ELECT 1MF 20% 50V
C058	1-124-791-11	ELECT 1MF 20% 50V
C059	1-124-902-00	ELECT 0.47MF 20% 50V
C060	1-124-463-00	ELECT 0.1MF 20% 50V
C061	1-136-154-00	FILM 0.012MF 5% 50V
C062	1-123-382-00	ELECT 3.3MF 20% 50V
C063	1-123-382-00	ELECT 3.3MF 20% 50V
C066	1-136-154-00	FILM 0.012MF 5% 50V
C067	1-123-382-00	ELECT 3.3MF 20% 50V
C068	1-123-382-00	ELECT 3.3MF 20% 50V
C070	1-161-379-00	CERAMIC 0.01MF 30% 16V
C071	1-123-875-11	ELECT 10MF 20% 50V
C072	1-161-379-00	CERAMIC 0.01MF 30% 16V
C073	1-124-463-00	ELECT 0.1MF 20% 50V
C074	1-124-927-11	ELECT 4.7MF 20% 50V
C075	1-161-379-00	CERAMIC 0.01MF 30% 16V
C076	1-126-176-11	ELECT 220MF 20% 10V
C077	1-161-379-00	CERAMIC 0.01MF 30% 16V
C078	1-162-282-31	CERAMIC 100PF 10% 50V
C090	1-161-379-00	CERAMIC 0.01MF 30% 16V
C091	1-161-379-00	CERAMIC 0.01MF 30% 16V
C092	1-161-379-00	CERAMIC 0.01MF 30% 16V
C093	1-161-379-00	CERAMIC 0.01MF 30% 16V
C094	1-124-477-11	ELECT 47MF 20% 16V
C095	1-162-211-31	(EXCEPT HST-V102) ...CERAMIC 33PF 5% 50V
C100	1-101-005-00	CERAMIC 0.022MF 50V
C101	1-102-961-00	CERAMIC 27PF 5% 50V
C102	1-102-961-00	CERAMIC 27PF 5% 50V
C103	1-161-494-00	(EXCEPT HST-V102) ...CERAMIC 0.022MF 25V
C104	1-136-173-00	(EXCEPT HST-V102) ...FILM 0.47MF 5% 50V
C105	1-124-463-00	(EXCEPT HST-V102) ...ELECT 0.1MF 20% 50V
C106	1-124-925-11	ELECT 2.2MF 20% 50V
C107	1-124-463-00	ELECT 0.1MF 20% 50V
C108	1-161-379-00	CERAMIC 0.01MF 30% 16V
C109	1-161-379-00	CERAMIC 0.01MF 30% 16V
C110	1-124-477-11	ELECT 47MF 20% 16V
C198	1-161-494-00	CERAMIC 0.022MF 25V

Ref.No.	Part No.	Description			
C199	1-161-494-00	CERAMIC	0.022MF		25V
C201	1-124-477-11	ELECT	47MF	20%	16V
C202	1-162-294-31	(EXCEPT HMK-V102) ...CERAMIC	0.001MF	10%	50V
C204	1-124-791-11	ELECT	1MF	20%	50V
C212	1-161-379-00	CERAMIC	0.01MF	30%	16V
C213	1-161-379-00	CERAMIC	0.01MF	30%	16V
C221	1-125-486-11	CAP,DOUBLE LAYERS	0.22F		5.5V
C301	1-162-292-31	CERAMIC	680PF	10%	50V
C303	1-136-157-00	FILM	0.022MF	5%	50V
C304	1-126-101-11	ELECT	100MF	20%	16V
C305	1-124-925-11	ELECT	2.2MF	20%	50V
C306	1-162-292-31	CERAMIC	680PF	10%	50V
C308	1-136-157-00	FILM	0.022MF	5%	50V
C309	1-126-101-11	ELECT	100MF	20%	16V
C310	1-124-925-11	ELECT	2.2MF	20%	50V
C311	1-130-479-00	MYLAR	0.0047MF	5%	50V
C312	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-126-176-11	ELECT	220MF	20%	10V
C314	1-124-927-11	ELECT	4.7MF	20%	50V
C315	1-131-587-11	TANTALUM	0.68MF	10%	35V
C316	1-124-925-11	ELECT	2.2MF	20%	50V
C318	1-124-925-11	ELECT	2.2MF	20%	50V
C319	1-124-925-11	ELECT	2.2MF	20%	50V
C351	1-162-292-31	CERAMIC	680PF	10%	50V
C353	1-136-157-00	FILM	0.022MF	5%	50V
C354	1-126-101-11	ELECT	100MF	20%	16V
C355	1-124-925-11	ELECT	2.2MF	20%	50V
C356	1-162-292-31	CERAMIC	680PF	10%	50V
C358	1-136-157-00	FILM	0.022MF	5%	50V
C359	1-126-101-11	ELECT	100MF	20%	16V
C360	1-124-925-11	ELECT	2.2MF	20%	50V
C361	1-130-479-00	MYLAR	0.0047MF	5%	50V
C362	1-162-289-31	CERAMIC	390PF	10%	50V
C363	1-126-176-11	ELECT	220MF	20%	10V
C364	1-124-927-11	ELECT	4.7MF	20%	50V
C365	1-131-587-11	TANTALUM	0.68MF	10%	35V
C366	1-124-925-11	ELECT	2.2MF	20%	50V
C368	1-124-925-11	ELECT	2.2MF	20%	50V
C369	1-124-925-11	ELECT	2.2MF	20%	50V
C390	1-124-927-11	ELECT	4.7MF	20%	50V
C391	1-124-927-11	ELECT	4.7MF	20%	50V
C392	1-123-875-11	ELECT	10MF	20%	50V
C401	1-136-159-00	FILM	0.033MF	5%	50V
C402	1-124-925-11	ELECT	2.2MF	20%	50V
C403	1-124-925-11	ELECT	2.2MF	20%	50V
C404	1-136-153-00	FILM	0.01MF	5%	50V
C405	1-130-472-00	MYLAR	0.0012MF	5%	50V
C406	1-136-153-00	FILM	0.01MF	5%	50V
C407 ⚠	1-136-273-91	FILM	75PF	5%	630V
C408 ⚠	1-136-271-00	FILM	56PF	5%	630V
C409	1-162-280-31	CERAMIC	82PF	10%	50V
C410	1-162-284-31	CERAMIC	150PF	10%	50V
C451	1-136-159-00	FILM	0.033MF	5%	50V
C452	1-124-925-11	ELECT	2.2MF	20%	50V
C453	1-124-925-11	ELECT	2.2MF	20%	50V
C454	1-136-153-00	FILM	0.01MF	5%	50V
C455	1-130-472-00	MYLAR	0.0012MF	5%	50V

Ref.No.	Part No.	Description			
C456	1-136-153-00	FILM	0.01MF	5%	50V
C457 ⚠	1-136-273-91	FILM	75PF	5%	630V
C458 ⚠	1-136-271-00	FILM	56PF	5%	630V
C459	1-162-280-31	CERAMIC	82PF	10%	50V
C460	1-162-284-31	CERAMIC	150PF	10%	50V
C501	1-124-925-11	ELECT	2.2MF	20%	50V
C502 ⚠	1-136-562-11	FILM	0.0082MF	5%	630V
C505	1-130-482-00	MYLAR	0.0082MF	5%	50V
C506	1-130-482-00	MYLAR	0.0082MF	5%	50V
C507	1-130-478-00	MYLAR	0.0039MF	5%	50V
C508	1-130-478-00	MYLAR	0.0039MF	5%	50V
C509	1-124-465-00	ELECT	0.47MF	20%	50V
C510	1-126-103-11	ELECT	470MF	20%	16V
C511	1-124-925-11	ELECT	2.2MF	20%	50V
C551	1-123-875-11	ELECT	10MF	20%	50V
C552	1-123-875-11	ELECT	10MF	20%	50V
C553	1-123-875-11	ELECT	10MF	20%	50V
C554	1-123-875-11	ELECT	10MF	20%	50V
C555	1-124-927-11	ELECT	4.7MF	20%	50V
C556	1-124-791-11	ELECT	1MF	20%	50V
C557	1-124-360-00	ELECT	1000MF	20%	16V
C601	1-124-925-11	ELECT	2.2MF	20%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-162-282-31	CERAMIC	100PF	10%	50V
C604	1-124-477-11	ELECT	47MF	20%	16V
C605	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C606	1-161-374-11	CERAMIC	0.0015MF	20%	16V
C607	1-124-464-11	ELECT	0.22MF	20%	50V
C608	1-124-477-11	ELECT	47MF	20%	16V
C609	1-124-925-11	ELECT	2.2MF	20%	50V
C610	1-124-477-11	ELECT	47MF	20%	16V
C651	1-124-925-11	ELECT	2.2MF	20%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-124-477-11	ELECT	47MF	20%	16V
C655	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C656	1-161-374-11	CERAMIC	0.0015MF	20%	16V
C657	1-124-464-11	ELECT	0.22MF	20%	50V
C658	1-124-477-11	ELECT	47MF	20%	16V
C659	1-124-925-11	ELECT	2.2MF	20%	50V
C660	1-124-477-11	ELECT	47MF	20%	16V
C701	1-124-925-11	ELECT	2.2MF	20%	50V
C702	1-124-477-11	ELECT	47MF	20%	16V
C703	1-162-282-31	CERAMIC	100PF	10%	50V
C704	1-124-925-11	ELECT	2.2MF	20%	50V
C705	1-124-464-11	ELECT	0.22MF	20%	50V
C706	1-136-161-00	FILM	0.047MF	5%	50V
C707	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C708	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C709	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C710	1-162-294-31	CERAMIC	0.001MF	10%	50V
C711	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C712	1-130-482-00	MYLAR	0.0082MF	5%	50V
C713	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C714	1-102-120-00	CERAMIC	0.0018MF	10%	50V
C715	1-124-925-11	ELECT	2.2MF	20%	50V
C716	1-162-282-31	CERAMIC	100PF	10%	50V

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description			
C725	1-136-153-00	(EXCEPT HMK-V102) ...FILM	0.01MF	5%	50V
C751	1-124-925-11	ELECT	2.2MF	20%	50V
C752	1-124-477-11	ELECT	47MF	20%	16V
C753	1-162-282-31	CERAMIC	100PF	10%	50V
C754	1-124-925-11	ELECT	2.2MF	20%	50V
C755	1-124-464-11	ELECT	0.22MF	20%	50V
C756	1-136-161-00	FILM	0.047MF	5%	50V
C757	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C758	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C759	1-161-375-00	CERAMIC	0.0022MF	20%	16V
C760	1-162-294-31	CERAMIC	0.001MF	10%	50V
C761	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C762	1-130-482-00	MYLAR	0.0082MF	5%	50V
C763	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C764	1-102-120-00	CERAMIC	0.0018MF	10%	50V
C765	1-124-925-11	ELECT	2.2MF	20%	50V
C766	1-162-282-31	CERAMIC	100PF	10%	50V
C801	1-124-925-11	ELECT	2.2MF	20%	50V
C802	1-162-282-31	CERAMIC	100PF	10%	50V
C803	1-162-282-31	CERAMIC	100PF	10%	50V
C804	1-124-477-11	ELECT	47MF	20%	16V
C805	1-123-875-11	ELECT	10MF	20%	50V
C806	1-136-163-00	FILM	0.068MF	5%	50V
C807	1-136-163-00	FILM	0.068MF	5%	50V
C809	1-123-875-11	ELECT	10MF	20%	50V
C810	1-126-101-11	ELECT	100MF	20%	16V
C811	1-126-101-11	ELECT	100MF	20%	16V
C851	1-124-925-11	ELECT	2.2MF	20%	50V
C852	1-162-282-31	CERAMIC	100PF	10%	50V
C853	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-124-477-11	ELECT	47MF	20%	16V
C855	1-123-875-11	ELECT	10MF	20%	50V
C856	1-136-163-00	FILM	0.068MF	5%	50V
C857	1-136-163-00	FILM	0.068MF	5%	50V
C859	1-123-875-11	ELECT	10MF	20%	50V
C901 ⚠	1-102-394-11	CERAMIC	0.01MF		250V
C902	1-126-413-11	ELECT	330MF	20%	35V
C903	1-126-413-11	ELECT	330MF	20%	35V
C904	1-124-477-11	ELECT	47MF	20%	16V
C905	1-124-477-11	ELECT	47MF	20%	16V
C906	1-124-360-00	ELECT	1000MF	20%	16V
C907	1-124-360-00	ELECT	1000MF	20%	16V
C908	1-124-477-11	ELECT	47MF	20%	16V
C909	1-124-477-11	ELECT	47MF	20%	16V
C910	1-124-473-11	ELECT	1000MF	20%	10V
C911	1-124-473-11	ELECT	1000MF	20%	10V
C912	1-124-925-11	ELECT	2.2MF	20%	50V
C913	1-124-463-00	ELECT	0.1MF	20%	50V
C914	1-126-103-11	ELECT	470MF	20%	16V
C915 ⚠	1-161-744-00	CERAMIC	0.01MF		400V
C991	1-136-169-00	(AEP)...FILM	0.22MF	5%	50V
C992	1-136-169-00	(AEP)...FILM	0.22MF	5%	50V
CF001	1-567-389-11	FILTER, CERAMIC			
CF002	1-567-389-11	FILTER, CERAMIC			
CF051	1-577-075-11	OSCILLATOR, CERAMIC			

Ref.No.	Part No.	Description
CN301	*1-564-506-11	PLUG, CONNECTOR 3P
CN302	*1-564-509-11	PLUG, CONNECTOR 6P
CN501	*1-564-505-11	PLUG, CONNECTOR 2P
CN502	*1-564-340-00	PIN, CONNECTOR 6P
CN503	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P
CN504	*1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P
CN601	*1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P
CN602	*1-564-508-11	(HMK-V82/V102)...PLUG, CONNECTOR 5P
CN801	*1-506-708-11	PLUG, CONNECTOR (2.5MM) 5P
CN901	*1-506-707-11	PLUG, CONNECTOR (2.5MM) 3P
CN902	*1-506-989-11	PIN, CONNECTOR (PC BOARD) 7P
CNJ601	1-569-130-11	JACK, PIN 2P
CNJ602	1-569-130-11	(HST-V102/V202)...JACK, PIN 2P
CNJ604	*1-564-358-00	(HST-V102/V202)...PIN, CONNECTOR 3P
CNJ801	1-569-113-11	JACK, LARGE TYPE
CNJ802	1-537-265-11	TERMINAL BOARD
CNJ803	1-569-130-11	(EXCEPT HST-V102)...JACK, PIN 2P (SORROUND)
CNP101	*1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P
⚠ CNP901	1-551-478-00	(HST-V102)...CORD, POWER
⚠ CNP901	1-555-750-00	(AEP).....CORD, POWER
⚠ CNP901	1-556-035-00	(UK).....CORD, POWER
D021	8-719-912-20	(EXCEPT HST-V102)...DIODE 1SS120
D101	8-719-933-54	DIODE HZS9A2L
D201	8-719-912-20	DIODE 1SS120
D202	8-719-912-20	DIODE 1SS120
D203	8-719-912-20	DIODE 1SS120
D204	8-719-912-20	DIODE 1SS120
D206	8-719-912-20	(HST-V102)...DIODE 1SS120
D208	8-719-912-20	(HST-V102)...DIODE 1SS120
D211	8-719-912-20	DIODE 1SS120
D221	8-719-912-20	DIODE 1SS120
D222	8-719-912-20	DIODE 1SS120
D223	8-719-912-20	DIODE 1SS120
D226	8-719-301-38	DIODE SEL2210S-C
D227	8-719-301-38	DIODE SEL2210S-C
D228	8-719-301-38	DIODE SEL2210S-C
D229	8-719-301-38	DIODE SEL2210S-C
D230	8-719-312-73	DIODE SEL4B14A-D
D231	8-719-312-73	DIODE SEL4B14A-D
D232	8-719-312-73	DIODE SEL4B14A-D
D233	8-719-312-73	DIODE SEL4B14A-D
D234	8-719-312-73	DIODE SEL4B14A-D
D235	8-719-312-73	DIODE SEL4B14A-D
D236	8-719-312-73	DIODE SEL4B14A-D
D237	8-719-312-73	DIODE SEL4B14A-D
D238	8-719-312-73	DIODE SEL4B14A-D
D239	8-719-312-73	DIODE SEL4B14A-D
D240	8-719-301-38	(EXCEPT HMK-V102)...DIODE SEL2210S-C
D501	8-719-912-20	DIODE 1SS120
D502	8-719-912-20	DIODE 1SS120
D503	8-719-912-20	DIODE 1SS120
D551	8-719-912-20	DIODE 1SS120
D552	8-719-912-20	DIODE 1SS120
D553	8-719-912-20	DIODE 1SS120

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Replace only with part number specified.

Ref.No.	Part No.	Description
D554	8-719-912-20	DIODE 1SS120
D555	8-719-912-20	DIODE 1SS120
D556	8-719-912-20	DIODE 1SS120
D557	8-719-912-20	DIODE 1SS120
D558	8-719-912-20	DIODE 1SS120
D559	8-719-912-20	DIODE 1SS120
D560	8-719-912-20	DIODE 1SS120
D561	8-719-912-20	DIODE 1SS120
D562	8-719-912-20	DIODE 1SS120
D563	8-719-912-20	DIODE 1SS120
D564	8-719-912-20	DIODE 1SS120
D565	8-719-912-20	DIODE 1SS120
D566	8-719-912-20	DIODE 1SS120
D567	8-719-912-20	DIODE 1SS120
D596	8-719-301-38	DIODE SEL2210S-C
D597	8-719-301-44	DIODE SEL2410E-C
D598	8-719-301-52	DIODE SEL2810A-C
D801	8-719-912-20	DIODE 1SS120
D802	8-719-912-20	DIODE 1SS120
D901 ⚠	8-719-312-09	DIODE RBA-402
D902	8-719-001-67	DIODE UZL-12L3
D903	8-719-001-67	DIODE UZL-12L3
D904	8-719-933-50	DIODE HZS7C2L
D905	8-719-933-50	DIODE HZS7C2L
F901 ⚠	1-532-237-00	(AEP,UK)...FUSE, TIME LAG (3.15A)
F901 ⚠	1-576-107-11	(HST-V102)...FUSE (3.15A)
F902 ⚠	1-576-107-11	(HST-V102)...FUSE (3.15A)
F902 ⚠	1-532-237-00	(AEP,UK)...FUSE, TIME LAG (3.15A)
F903 ⚠	1-532-775-11	(HST-V102)..FUSE, MICRO(SECONDARY)800mA
F904 ⚠	1-532-775-11	(HST-V102)..FUSE, MICRO(SECONDARY)800mA
FE001	1-465-006-11	FRONT END (FM) (2 GANG)
FE021	1-236-461-11	(HST-V102)...ENCAPSULATED COMPONENT
FE021	1-236-462-11	(EXCEPT HST-V102)...ENCAPSULATED COMPONENT
FE022	1-236-463-11	(EXCEPT HST-V102)...ENCAPSULATED COMPONENT
HE101	1-543-673-11	(DECK B)...HEAD, MAGNETIC (ERASE)
HP101	1-543-672-11	(DECK A)...HEAD, MAGNETIC (REC/PB)
HRP101	1-543-672-11	(DECK B)...HEAD, MAGNETIC (REC/PB)
IC051	8-759-822-14	IC LA1851N-S
IC101	8-759-820-91	IC LC7218
IC201	8-759-148-93	IC UPD75308GF-491-3B9
IC202	8-749-920-83	(EXCEPT HMK-V102)...IC GP1U52XB
IC301	8-759-111-44	IC UPC4570C-1
IC302	8-759-111-44	IC UPC4570C-1
IC303	8-759-000-49	IC MC14066BCP
IC304	8-752-031-67	IC CXA1100P
IC401	8-759-601-02	IC M5218P
IC501	8-759-140-11	IC TC4011BP
IC502	8-759-240-01	IC TC4001BP
IC601	8-759-601-02	IC M5218P
IC602	8-759-208-08	IC TC4052BPHB
IC701	8-759-601-02	IC M5218P
IC702	8-759-601-02	IC M5218P
IC703	8-759-820-62	(EXCEPT HMK-V102)...IC LB1639

Ref.No.	Part No.	Description
IC801	8-749-920-78	IC SI-18751
IC851	8-749-920-78	IC SI-18751
IC901	8-759-820-13	IC L78MR06
⚠ ICP901	1-532-838-11	(EXCEPT HST-V102)...LINK, IC
⚠ ICP902	1-532-838-11	(EXCEPT HST-V102)...LINK, IC
IFT071	1-404-713-11	TRANSFORMER, IF
L021	1-410-524-41	(EXCEPT HST-V102)...INDUCTOR 220UH
L071	1-407-500-00	(EXCEPT HST-V102)...INDUCTOR 4.7MMH
L071	1-410-686-11	(HST-V102).....INDUCTOR 1MMH
L401	1-410-775-21	INDUCTOR 10MMH
L402	1-410-780-11	INDUCTOR 27MMH
L451	1-410-775-21	INDUCTOR 10MMH
L452	1-410-780-11	INDUCTOR 27MMH
L501	1-410-524-41	INDUCTOR 220UH
LCD201	1-808-810-11	DISPLAY PANEL, LIQUID CRYSTAL
LPF061	1-235-164-00	FILTER, LOW PASS
LPF066	1-235-164-00	FILTER, LOW PASS
M3	4-895-034-01	MOTOR ASSY (PLAYER)
M101	X-3358-201-1	(TCM-180VW-N1)....MOTOR (W) ASSY
M101	X-3390-803-1	(TCM-YMW47C-97)...MOTOR ASSY
Q001	8-729-620-19	TRANSISTOR 2SC2724-CD
Q021	8-729-900-80	(EXCEPT HST-V102)...TRANSISTOR DTC114ES
Q022	8-729-900-80	(EXCEPT HST-V102)...TRANSISTOR DTC114ES
Q023	8-729-900-80	(EXCEPT HST-V102)...TRANSISTOR DTC114ES
Q024	8-729-821-04	(EXCEPT HST-V102)...TRANSISTOR 2SA1317-STU
Q025	8-729-620-05	(EXCEPT HST-V102)...TRANSISTOR 2SC2603-EF
Q026	8-729-900-80	(EXCEPT HST-V102)...TRANSISTOR DTC114ES
Q061	8-729-620-05	TRANSISTOR 2SC2603-EF
Q066	8-729-620-05	TRANSISTOR 2SC2603-EF
Q091	8-729-900-61	TRANSISTOR DTA114ES
Q092	8-729-900-80	TRANSISTOR DTC114ES
Q101	8-729-202-67	(EXCEPT HST-V102)..TRANSISTOR 2SK246GR3
Q102	8-729-201-84	(EXCEPT HST-V102)..TRANSISTOR 2SC3112B
Q103	8-729-202-67	TRANSISTOR 2SK246GR3
Q104	8-729-201-84	TRANSISTOR 2SC3112B
Q105	8-729-620-05	TRANSISTOR 2SC2603-EF
Q201	8-729-900-61	(EXCEPT HMK-V102)...TRANSISTOR DTA114ES
Q202	8-729-620-05	TRANSISTOR 2SC2603-EF
Q203	8-729-900-36	TRANSISTOR DTC124ES
Q281	8-729-900-89	TRANSISTOR DTC144ES
Q282	8-729-821-04	TRANSISTOR 2SA1317-STU
Q301	8-729-900-89	TRANSISTOR DTC144ES
Q302	8-729-620-05	TRANSISTOR 2SC2603-EF
Q303	8-729-620-05	TRANSISTOR 2SC2603-EF
Q351	8-729-900-89	TRANSISTOR DTC144ES
Q352	8-729-620-05	TRANSISTOR 2SC2603-EF
Q353	8-729-620-05	TRANSISTOR 2SC2603-EF
Q401	8-729-900-89	TRANSISTOR DTC144ES
Q451	8-729-900-89	TRANSISTOR DTC144ES
Q501	8-729-900-61	TRANSISTOR DTA114ES
Q502	8-729-281-52	TRANSISTOR 2SC1815Y
Q503	8-729-194-57	TRANSISTOR 2SC945P
Q504	8-729-194-57	TRANSISTOR 2SC945P

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description
Q505	8-729-620-05	TRANSISTOR 2SC2603-EF
Q551	8-729-620-05	TRANSISTOR 2SC2603-EF
Q552	8-729-900-89	TRANSISTOR DTC144ES
Q553	8-729-900-63	TRANSISTOR DTA124ES
Q554	8-729-620-05	TRANSISTOR 2SC2603-EF
Q555	8-729-821-04	TRANSISTOR 2SA1317-STU
Q701	8-729-620-05	TRANSISTOR 2SC2603-EF
Q702	8-729-141-26	TRANSISTOR 2SC3622A-LK
Q751	8-729-620-05	TRANSISTOR 2SC2603-EF
Q752	8-729-141-26	TRANSISTOR 2SC3622A-LK
Q801	8-729-620-05	TRANSISTOR 2SC2603-EF
Q802	8-729-620-05	TRANSISTOR 2SC2603-EF
Q803	8-729-620-05	TRANSISTOR 2SC2603-EF
Q804	8-729-620-05	TRANSISTOR 2SC2603-EF
Q901	8-729-920-98	TRANSISTOR 2SD1761-EF
Q902	8-729-920-97	TRANSISTOR 2SB1187-EF
Q903	8-729-920-98	TRANSISTOR 2SD1761-EF
Q904	8-729-920-97	TRANSISTOR 2SB1187-EF
R07	1-249-412-11	(EXCEPT HST-V102) ...CARBON 390 5% 1/4W
R09	1-249-412-11	(HST-V102)...CARBON 390 5% 1/4W
R99	1-249-397-11	(HST-V102)...CARBON 22 5% 1/4W
R001	1-249-409-11	CARBON 220 5% 1/4W
R002	1-247-891-00	CARBON 330K 5% 1/4W
R003	1-249-411-11	CARBON 330 5% 1/4W
R010 ⚠	1-249-401-11	CARBON 47 5% 1/4W F
R021	1-249-441-11	CARBON 100K 5% 1/4W
R022	1-249-425-11	(EXCEPT HST-V102) ...CARBON 4.7K 5% 1/4W
R023	1-249-429-11	(EXCEPT HST-V102) ...CARBON 10K 5% 1/4W
R024	1-249-429-11	(EXCEPT HST-V102) ...CARBON 10K 5% 1/4W
R025	1-249-434-11	(EXCEPT HST-V102) ...CARBON 27K 5% 1/4W
R026	1-249-433-11	(EXCEPT HST-V102) ...CARBON 22K 5% 1/4W
R027	1-249-413-11	(EXCEPT HST-V102) ...CARBON 470 5% 1/4W
R028	1-249-421-11	(EXCEPT HST-V102) ...CARBON 2.2K 5% 1/4W
R029	1-249-433-11	(EXCEPT HST-V102) ...CARBON 22K 5% 1/4W
R030	1-249-437-11	CARBON 47K 5% 1/4W
R031	1-249-441-11	(EXCEPT HST-V102) ...CARBON 100K 5% 1/4W
R032	1-249-437-11	(EXCEPT HST-V102) ...CARBON 47K 5% 1/4W
R033	1-247-903-00	(EXCEPT HST-V102) ...CARBON 1M 5% 1/4W
R034	1-249-433-11	(EXCEPT HST-V102) ...CARBON 22K 5% 1/4W
R051	1-249-417-11	CARBON 1K 5% 1/4W
R052	1-249-433-11	(EXCEPT HST-V102) ...CARBON 22K 5% 1/4W
R052	1-249-428-11	(HST-V102)...CARBON 8.2K 5% 1/4W

Ref.No.	Part No.	Description
R053 ⚠	1-249-405-11	CARBON 100 5% 1/4W F
R054	1-249-435-11	CARBON 33K 5% 1/4W
R055	1-249-428-11	CARBON 8.2K 5% 1/4W
R056	1-249-432-11	CARBON 18K 5% 1/4W
R057	1-249-429-11	CARBON 10K 5% 1/4W
R058	1-249-418-11	CARBON 1.2K 5% 1/4W
R060	1-249-425-11	(EXCEPT HST-V102) ...CARBON 4.7K 5% 1/4W
R060	1-247-848-11	(HST-V102)...CARBON 5.1K 5% 1/4W
R061	1-247-895-00	CARBON 470K 5% 1/4W
R062	1-249-416-11	(EXCEPT HST-V102) ...CARBON 820 5% 1/4W
R062	1-249-418-11	(HST-V102)...CARBON 1.2K 5% 1/4W
R063	1-249-421-11	CARBON 2.2K 5% 1/4W
R064	1-249-423-11	CARBON 3.3K 5% 1/4W
R065	1-249-425-11	(EXCEPT HST-V102) ...CARBON 4.7K 5% 1/4W
R065	1-247-848-11	(HST-V102)...CARBON 5.1K 5% 1/4W
R066	1-247-895-00	CARBON 470K 5% 1/4W
R067	1-249-416-11	(EXCEPT HST-V102) ...CARBON 820 5% 1/4W
R067	1-249-418-11	(HST-V102)...CARBON 1.2K 5% 1/4W
R068	1-249-421-11	CARBON 2.2K 5% 1/4W
R069	1-249-423-11	CARBON 3.3K 5% 1/4W
R070	1-249-437-11	CARBON 47K 5% 1/4W
R072	1-249-437-11	CARBON 47K 5% 1/4W
R090	1-249-429-11	CARBON 10K 5% 1/4W
R091	1-249-429-11	CARBON 10K 5% 1/4W
R092	1-249-425-11	CARBON 4.7K 5% 1/4W
R093	1-249-417-11	CARBON 1K 5% 1/4W
R094	1-249-417-11	CARBON 1K 5% 1/4W
R095	1-249-429-11	CARBON 10K 5% 1/4W
R096	1-249-429-11	CARBON 10K 5% 1/4W
R097 ⚠	1-249-401-11	CARBON 47 5% 1/4W F
R098	1-249-423-11	CARBON 3.3K 5% 1/4W
R101 ⚠	1-249-405-11	CARBON 100 5% 1/4W F
R102	1-249-423-11	(EXCEPT HST-V102) ...CARBON 3.3K 5% 1/4W
R103	1-249-421-11	(EXCEPT HST-V102) ...CARBON 2.2K 5% 1/4W
R104	1-249-433-11	(EXCEPT HST-V102) ...CARBON 22K 5% 1/4W
R105	1-249-425-11	(EXCEPT HST-V102) ...CARBON 4.7K 5% 1/4W
R106	1-249-414-11	(EXCEPT HST-V102) ...CARBON 560 5% 1/4W
R107	1-249-417-11	(EXCEPT HST-V102) ...CARBON 1K 5% 1/4W
R108	1-249-410-11	(EXCEPT HST-V102) ...CARBON 270 5% 1/4W
R109	1-249-405-11	(EXCEPT HST-V102) ...CARBON 100 5% 1/4W
R110	1-249-423-11	CARBON 3.3K 5% 1/4W
R111	1-249-425-11	CARBON 4.7K 5% 1/4W
R112	1-249-421-11	CARBON 2.2K 5% 1/4W
R113	1-249-425-11	CARBON 4.7K 5% 1/4W
R114	1-249-425-11	CARBON 4.7K 5% 1/4W
R115	1-249-414-11	CARBON 560 5% 1/4W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			
R116	1-249-417-11	CARBON	1K	5%	1/4W
R117	1-249-410-11	CARBON	270	5%	1/4W
R118	1-249-405-11	CARBON	100	5%	1/4W
R121	1-249-417-11	CARBON	1K	5%	1/4W
R122	1-249-417-11	CARBON	1K	5%	1/4W
R123	1-249-417-11	CARBON	1K	5%	1/4W
R124	1-249-417-11	CARBON	1K	5%	1/4W
R125	1-249-417-11	CARBON	1K	5%	1/4W
R126	1-249-441-11	CARBON	100K	5%	1/4W
R127	1-249-429-11	CARBON	10K	5%	1/4W
R201	1-249-412-11	(EXCEPT HMK-V102) ...CARBON	390	5%	1/4W
R203	1-249-417-11	CARBON	1K	5%	1/4W
R204	1-249-417-11	CARBON	1K	5%	1/4W
R206	1-249-433-11	CARBON	22K	5%	1/4W
R207	1-249-417-11	CARBON	1K	5%	1/4W
R208	1-249-417-11	CARBON	1K	5%	1/4W
R209	1-249-437-11	CARBON	47K	5%	1/4W
R210	1-249-437-11	CARBON	47K	5%	1/4W
R211	1-249-437-11	CARBON	47K	5%	1/4W
R212	1-249-437-11	CARBON	47K	5%	1/4W
R213	1-249-412-11	CARBON	390	5%	1/4W
R214	1-249-412-11	CARBON	390	5%	1/4W
R215	1-249-412-11	CARBON	390	5%	1/4W
R216	1-249-412-11	CARBON	390	5%	1/4W
R218	1-249-437-11	CARBON	47K	5%	1/4W
R219	1-249-437-11	CARBON	47K	5%	1/4W
R220	1-249-431-11	CARBON	15K	5%	1/4W
R222	1-249-417-11	CARBON	1K	5%	1/4W
R223	1-249-417-11	CARBON	1K	5%	1/4W
R224	1-249-437-11	CARBON	47K	5%	1/4W
R226	1-249-417-11	CARBON	1K	5%	1/4W
R227	1-249-437-11	CARBON	47K	5%	1/4W
R230	1-249-408-11	CARBON	180	5%	1/4W
R231	1-249-408-11	CARBON	180	5%	1/4W
R281	1-249-433-11	CARBON	22K	5%	1/4W
R282	1-249-433-11	CARBON	22K	5%	1/4W
R292	1-249-417-11	CARBON	1K	5%	1/4W
R301	1-247-889-00	CARBON	270K	5%	1/4W
R302	1-249-404-00	CARBON	82	5%	1/4W
R303	1-247-882-11	CARBON	130K	5%	1/4W
R304	1-249-426-11	CARBON	5.6K	5%	1/4W
R305	1-249-409-11	CARBON	220	5%	1/4W
R306	1-247-889-00	CARBON	270K	5%	1/4W
R307	1-249-404-00	CARBON	82	5%	1/4W
R308	1-247-882-11	CARBON	130K	5%	1/4W
R309	1-249-426-11	CARBON	5.6K	5%	1/4W
R310	1-249-409-11	CARBON	220	5%	1/4W
R311	1-249-430-11	CARBON	12K	5%	1/4W
R312	1-249-431-11	CARBON	15K	5%	1/4W
R313	1-247-889-00	CARBON	270K	5%	1/4W
R314	1-249-401-11	CARBON	47	5%	1/4W
R315	1-249-401-11	CARBON	47	5%	1/4W
R316	1-249-437-11	CARBON	47K	5%	1/4W
R317	1-247-838-00	CARBON	2K	5%	1/4W
R318	1-249-421-11	CARBON	2.2K	5%	1/4W
R319	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref.No.	Part No.	Description			
R320	1-249-429-11	CARBON	10K	5%	1/4W
R321	1-249-417-11	CARBON	1K	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-249-429-11	CARBON	10K	5%	1/4W
R324	1-249-422-11	CARBON	2.7K	5%	1/4W
R325	1-249-425-11	CARBON	4.7K	5%	1/4W
R326	1-249-441-11	CARBON	100K	5%	1/4W
R327	1-249-441-11	CARBON	100K	5%	1/4W
R351	1-247-889-00	CARBON	270K	5%	1/4W
R352	1-249-404-00	CARBON	82	5%	1/4W
R353	1-247-882-11	CARBON	130K	5%	1/4W
R354	1-249-426-11	CARBON	5.6K	5%	1/4W
R355	1-249-409-11	CARBON	220	5%	1/4W
R356	1-247-889-00	CARBON	270K	5%	1/4W
R357	1-249-404-00	CARBON	82	5%	1/4W
R358	1-247-882-11	CARBON	130K	5%	1/4W
R359	1-249-426-11	CARBON	5.6K	5%	1/4W
R360	1-249-409-11	CARBON	220	5%	1/4W
R361	1-249-430-11	CARBON	12K	5%	1/4W
R362	1-249-431-11	CARBON	15K	5%	1/4W
R363	1-247-889-00	CARBON	270K	5%	1/4W
R364	1-249-401-11	CARBON	47	5%	1/4W
R365	1-249-401-11	CARBON	47	5%	1/4W
R366	1-249-437-11	CARBON	47K	5%	1/4W
R367	1-247-838-00	CARBON	2K	5%	1/4W
R368	1-249-421-11	CARBON	2.2K	5%	1/4W
R369	1-249-425-11	CARBON	4.7K	5%	1/4W
R370	1-249-429-11	CARBON	10K	5%	1/4W
R371	1-249-417-11	CARBON	1K	5%	1/4W
R372	1-249-429-11	CARBON	10K	5%	1/4W
R373	1-249-429-11	CARBON	10K	5%	1/4W
R374	1-249-422-11	CARBON	2.7K	5%	1/4W
R375	1-249-425-11	CARBON	4.7K	5%	1/4W
R376	1-249-441-11	CARBON	100K	5%	1/4W
R377	1-249-441-11	CARBON	100K	5%	1/4W
R390	1-249-417-11	CARBON	1K	5%	1/4W
R391	1-215-460-00	METAL	43K	1%	1/6W
R392	1-249-437-11	CARBON	47K	5%	1/4W
R393	1-249-417-11	CARBON	1K	5%	1/4W
R401	1-249-435-11	CARBON	33K	5%	1/4W
R402	1-247-876-11	CARBON	75K	5%	1/4W
R403	1-249-422-11	CARBON	2.7K	5%	1/4W
R404	1-249-410-11	CARBON	270	5%	1/4W
R405	1-249-423-11	CARBON	3.3K	5%	1/4W
R406	1-247-850-11	CARBON	6.2K	5%	1/4W
R407	1-249-430-11	CARBON	12K	5%	1/4W
R451	1-249-435-11	CARBON	33K	5%	1/4W
R452	1-247-876-11	CARBON	75K	5%	1/4W
R453	1-249-422-11	CARBON	2.7K	5%	1/4W
R454	1-249-410-11	CARBON	270	5%	1/4W
R455	1-249-423-11	CARBON	3.3K	5%	1/4W
R456	1-247-850-11	CARBON	6.2K	5%	1/4W
R457	1-249-430-11	CARBON	12K	5%	1/4W
R501	1-249-401-11	CARBON	47	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref.No.	Part No.	Description				
R505 ⚠	1-212-857-00	FUSIBLE	10	5%	1/4W	F
R506	1-249-434-11	CARBON	27K	5%	1/4W	
R507	1-249-434-11	CARBON	27K	5%	1/4W	
R508	1-249-429-11	CARBON	10K	5%	1/4W	
R509	1-249-417-11	CARBON	1K	5%	1/4W	
R551	1-247-850-11	CARBON	6.2K	5%	1/4W	
R552	1-249-440-11	CARBON	82K	5%	1/4W	
R553	1-249-433-11	CARBON	22K	5%	1/4W	
R554	1-249-429-11	CARBON	10K	5%	1/4W	
R555	1-249-437-11	CARBON	47K	5%	1/4W	
R556	1-249-409-11	CARBON	220	5%	1/4W	
R557	1-249-437-11	CARBON	47K	5%	1/4W	
R558	1-249-429-11	CARBON	10K	5%	1/4W	
R559	1-249-437-11	CARBON	47K	5%	1/4W	
R560	1-249-423-11	CARBON	3.3K	5%	1/4W	
R561	1-249-441-11	CARBON	100K	5%	1/4W	
R562	1-249-433-11	CARBON	22K	5%	1/4W	
R563	1-249-429-11	CARBON	10K	5%	1/4W	
R564	1-249-437-11	CARBON	47K	5%	1/4W	
R565	1-249-433-11	CARBON	22K	5%	1/4W	
R566	1-249-433-11	CARBON	22K	5%	1/4W	
R568	1-249-429-11	CARBON	10K	5%	1/4W	
R569	1-249-425-11	CARBON	4.7K	5%	1/4W	
R570	1-249-429-11	CARBON	10K	5%	1/4W	
R591	1-247-850-11	CARBON	6.2K	5%	1/4W	
R592	1-249-416-11	CARBON	820	5%	1/4W	
R596	1-249-413-11	CARBON	470	5%	1/4W	
R597	1-249-413-11	CARBON	470	5%	1/4W	
R598	1-249-413-11	CARBON	470	5%	1/4W	
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R602	1-249-441-11	CARBON	100K	5%	1/4W	
R603	1-249-416-11	CARBON	820	5%	1/4W	
R604	1-247-897-11	CARBON	560K	5%	1/4W	
R605	1-249-437-11	CARBON	47K	5%	1/4W	
R606	1-249-409-11	CARBON	220	5%	1/4W	
R607	1-249-441-11	CARBON	100K	5%	1/4W	
R608	1-249-409-11	CARBON	220	5%	1/4W	
R610	1-249-429-11	CARBON	10K	5%	1/4W	
R611	1-249-441-11	CARBON	100K	5%	1/4W	
R612	1-249-417-11	CARBON	1K	5%	1/4W	
R613	1-249-417-11	CARBON	1K	5%	1/4W	
R614	1-249-433-11	CARBON	22K	5%	1/4W	
R615	1-249-433-11	CARBON	22K	5%	1/4W	
R651	1-249-417-11	CARBON	1K	5%	1/4W	
R652	1-249-441-11	CARBON	100K	5%	1/4W	
R653	1-249-416-11	CARBON	820	5%	1/4W	
R654	1-247-897-11	CARBON	560K	5%	1/4W	
R655	1-249-437-11	CARBON	47K	5%	1/4W	
R656	1-249-409-11	CARBON	220	5%	1/4W	
R657	1-249-441-11	CARBON	100K	5%	1/4W	
R658	1-249-409-11	CARBON	220	5%	1/4W	
R660	1-249-429-11	CARBON	10K	5%	1/4W	
R661	1-249-441-11	CARBON	100K	5%	1/4W	
R701	1-249-441-11	CARBON	100K	5%	1/4W	
R702	1-249-417-11	CARBON	1K	5%	1/4W	
R703	1-249-431-11	CARBON	15K	5%	1/4W	
R704	1-249-441-11	CARBON	100K	5%	1/4W	

Ref.No.	Part No.	Description			
R705	1-249-433-11	CARBON	22K	5%	1/4W
R706	1-249-424-11	CARBON	3.9K	5%	1/4W
R707	1-249-441-11	CARBON	100K	5%	1/4W
R708	1-249-427-11	CARBON	6.8K	5%	1/4W
R709	1-249-412-11	CARBON	390	5%	1/4W
R710	1-249-436-11	CARBON	39K	5%	1/4W
R711	1-247-897-11	CARBON	560K	5%	1/4W
R712	1-249-438-11	CARBON	56K	5%	1/4W
R713	1-249-436-11	CARBON	39K	5%	1/4W
R714	1-249-434-11	CARBON	27K	5%	1/4W
R715	1-249-434-11	CARBON	27K	5%	1/4W
R716	1-249-432-11	CARBON	18K	5%	1/4W
R717	1-249-432-11	CARBON	18K	5%	1/4W
R718	1-249-430-11	CARBON	12K	5%	1/4W
R719	1-249-430-11	CARBON	12K	5%	1/4W
R720	1-249-428-11	CARBON	8.2K	5%	1/4W
R721	1-249-428-11	CARBON	8.2K	5%	1/4W
R722	1-247-897-11	CARBON	560K	5%	1/4W
R723	1-249-421-11	CARBON	2.2K	5%	1/4W
R724	1-249-425-11	CARBON	4.7K	5%	1/4W
R725	1-249-433-11	CARBON	22K	5%	1/4W
R726	1-249-433-11	CARBON	22K	5%	1/4W
R727	1-249-433-11	CARBON	22K	5%	1/4W
R751	1-249-441-11	CARBON	100K	5%	1/4W
R752	1-249-417-11	CARBON	1K	5%	1/4W
R754	1-249-441-11	CARBON	100K	5%	1/4W
R755	1-249-433-11	CARBON	22K	5%	1/4W
R756	1-249-424-11	CARBON	3.9K	5%	1/4W
R757	1-249-441-11	CARBON	100K	5%	1/4W
R758	1-249-427-11	CARBON	6.8K	5%	1/4W
R759	1-249-412-11	CARBON	390	5%	1/4W
R760	1-249-436-11	CARBON	39K	5%	1/4W
R761	1-247-897-11	CARBON	560K	5%	1/4W
R762	1-249-438-11	CARBON	56K	5%	1/4W
R763	1-249-436-11	CARBON	39K	5%	1/4W
R764	1-249-434-11	CARBON	27K	5%	1/4W
R765	1-249-434-11	CARBON	27K	5%	1/4W
R766	1-249-432-11	CARBON	18K	5%	1/4W
R767	1-249-432-11	CARBON	18K	5%	1/4W
R768	1-249-430-11	CARBON	12K	5%	1/4W
R769	1-249-430-11	CARBON	12K	5%	1/4W
R770	1-249-428-11	CARBON	8.2K	5%	1/4W
R771	1-249-428-11	CARBON	8.2K	5%	1/4W
R772	1-247-897-11	CARBON	560K	5%	1/4W
R773	1-249-421-11	CARBON	2.2K	5%	1/4W
R774	1-249-425-11	CARBON	4.7K	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-434-11	CARBON	27K	5%	1/4W
R803	1-249-414-11	CARBON	560	5%	1/4W
R804	1-249-434-11	CARBON	27K	5%	1/4W
R805	1-249-389-11	CARBON	4.7	5%	1/4W
R806	1-249-415-11	CARBON	680	5%	1/4W
R807	1-249-415-11	CARBON	680	5%	1/4W
R810	1-249-441-11	CARBON	100K	5%	1/4W
R811	1-249-389-11	CARBON	4.7	5%	1/4W
R812	1-249-438-11	CARBON	56K	5%	1/4W
R813	1-249-438-11	CARBON	56K	5%	1/4W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description
R851	1-249-417-11	CARBON 1K 5% 1/4W
R852	1-249-434-11	CARBON 27K 5% 1/4W
R853	1-249-414-11	CARBON 560 5% 1/4W
R854	1-249-434-11	CARBON 27K 5% 1/4W
R855	1-249-389-11	CARBON 4.7 5% 1/4W
R856	1-249-415-11	CARBON 680 5% 1/4W
R857	1-249-415-11	CARBON 680 5% 1/4W
R863	1-249-437-11	CARBON 47K 5% 1/4W
R901	1-249-422-11	CARBON 2.7K 5% 1/4W
R902	1-249-422-11	CARBON 2.7K 5% 1/4W
R903	1-249-419-11	CARBON 1.5K 5% 1/4W
R904	1-249-419-11	CARBON 1.5K 5% 1/4W
R910	1-202-725-00	(HST-V102)...SOLID 3.3M 10% 1/2W
RV071	1-238-601-11	RES, ADJ, CARBON, 22K (AM TUNED)
RV072	1-238-601-11	RES, ADJ, CARBON, 22K (FM TUNED)
RV301	1-238-600-11	RES, ADJ, CARBON 10K (PB LEVEL A,L)
RV302	1-238-600-11	RES, ADJ, CARBON 10K (PB LEVEL B,L)
RV303	1-238-600-11	RES, ADJ, CARBON 10K (REC LEVEL L)
RV351	1-238-600-11	RES, ADJ, CARBON 10K (PB LEVEL A,R)
RV352	1-238-600-11	RES, ADJ, CARBON 10K (PB LEVEL B,R)
RV353	1-238-600-11	RES, ADJ, CARBON 10K (REC LEVEL R)
RV401	1-238-603-11	RES, ADJ, CARBON 100K (BIAS CURRENT L)
RV451	1-238-603-11	RES, ADJ, CARBON 100K (BIAS CURRENT R)
RV701	1-238-830-21	RES, VAR, CARBON 100K/100K (SURROUND)
RV702	1-238-830-21	RES, VAR, CARBON 100K/100K (DBFB)
RV703	1-238-831-21	RES, VAR, SLIDE 250K/250K (100Hz)
RV704	1-238-831-21	RES, VAR, SLIDE 250K/250K (330Hz)
RV705	1-238-831-21	RES, VAR, SLIDE 250K/250K (1kHz)
RV706	1-238-831-21	RES, VAR, SLIDE 250K/250K (3.3kHz)
RV707	1-238-831-21	RES, VAR, SLIDE 250K/250K (10kHz)
RV708	1-238-829-21	(HMK-V102) ...RES, VAR, CARBON 100K/100K(VOLUME)
RV708	1-238-875-21	(EXCEPT HMK-V102) ...RES, VAR, CARBON 100K/100K(VOLUME)
RY501	1-515-614-11	RELAY
RY801	1-515-533-11	RELAY
S101	1-570-715-11	(TCM-YMW47C-97)...SWITCH, LEAF
S102	1-570-430-11	(TCM-YMW47C-97)...SWITCH, LEAF
S102	1-571-736-11	(TCM-180VW-N1)....SWITCH, LEAF
S103	1-571-736-11	(TCM-180VW-N1)....SWITCH, LEAF
S103	1-572-040-11	(TCM-YMW47C-97)...SWITCH, LEAF
S104	1-570-715-11	(TCM-YMW47C-97)...SWITCH, LEAF
S105	1-570-430-11	(TCM-YMW47C-97)...SWITCH, LEAF
S105	1-571-736-11	(TCM-180VW-N1)....SWITCH, LEAF
S106	4-895-068-01	(HMK-V82/V102)...LIEF, SW (PLAYER)
S201	1-554-303-21	SWITCH, KEY BOARD (+)
S202	1-554-303-21	SWITCH, KEY BOARD (SHIFT)
S203	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S204	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S205	1-554-303-21	SWITCH, KEY BOARD (-)
S206	1-554-303-21	SWITCH, KEY BOARD (1)
S207	1-554-303-21	SWITCH, KEY BOARD (2)
S208	1-554-303-21	SWITCH, KEY BOARD (CD)
S209	1-554-303-21	SWITCH, KEY BOARD (BAND SELECTOR)
S210	1-554-303-21	SWITCH, KEY BOARD (3)
S211	1-554-303-21	SWITCH, KEY BOARD (4)

Ref.No.	Part No.	Description
S212	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S214	1-554-303-21	SWITCH, KEY BOARD (5)
S215	1-554-303-21	SWITCH, KEY BOARD (6)
S216	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S501	1-572-149-21	SWITCH, PUSH (2 KEY)
S901	⚠1-572-109-11	SWITCH, PUSH (AC POWER)(1 KEY)
T051	1-404-807-11	TRANSFORMER, DISCRIMINATOR
T501	1-433-349-11	TRANSFORMER, BIAS OSCILLATION
T901	⚠.1-449-873-21	(EXCEPT HST-V102)...TRANSFORMER, POWER
T901	⚠.1-450-046-21	(HST-V102).....TRANSFORMER, POWER
TB001	1-537-264-11	TERMINAL BOARD (ANTENNA)
TN1	⚠.1-535-476-11	TERMINAL
TN2	⚠.1-535-476-11	TERMINAL
TP1	*1-560-061-00	PIN, CONNECTOR 3P (L,R)
TP2	*1-560-060-00	PIN, CONNECTOR 2P (NULL)
X201	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)
XT101	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)

ACCESSORY & PACKING MATERIAL

1-465-358-11	(HST-V102/V202)...COMMANDER, REMOTE (RM-S130)
1-501-374-11	ANTENNA, LOOP
2-181-754-01	(HST-V102/V202)...COVER, BATTERY
3-751-030-11	(HMK-V82).....MANUAL, INSTRUCTION
3-751-030-61	(HMK-V82).....MANUAL, INSTRUCTION
3-751-142-11	(HMK-V102:AEP)...MANUAL, INSTRUCTION
3-751-142-41	(HMK-V102:AEP)...MANUAL, INSTRUCTION
3-751-142-51	(HMK-V102:UK)....MANUAL, INSTRUCTION
4-921-934-01	SHEET, PROTECTION
*4-935-318-01	(HMK-V102)...CUSHION (UPPER)
*4-935-319-01	(HMK-V102)...CUSHION (LOWER)
*4-935-376-01	(HMK-V102:AEP)...INDIVIDUAL CARTON
*4-935-377-01	(HMK-V102:UK)....INDIVIDUAL CARTON

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.